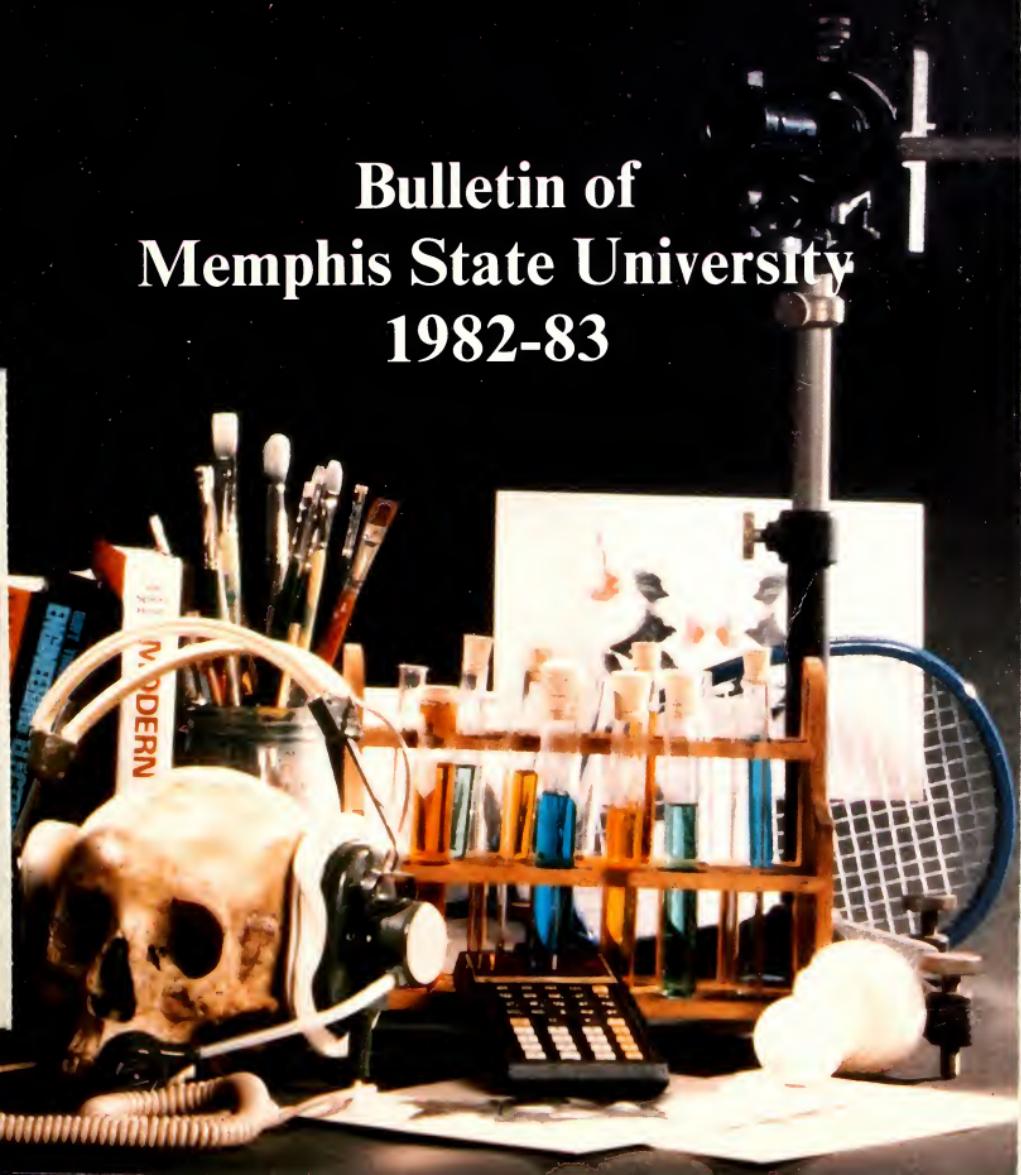
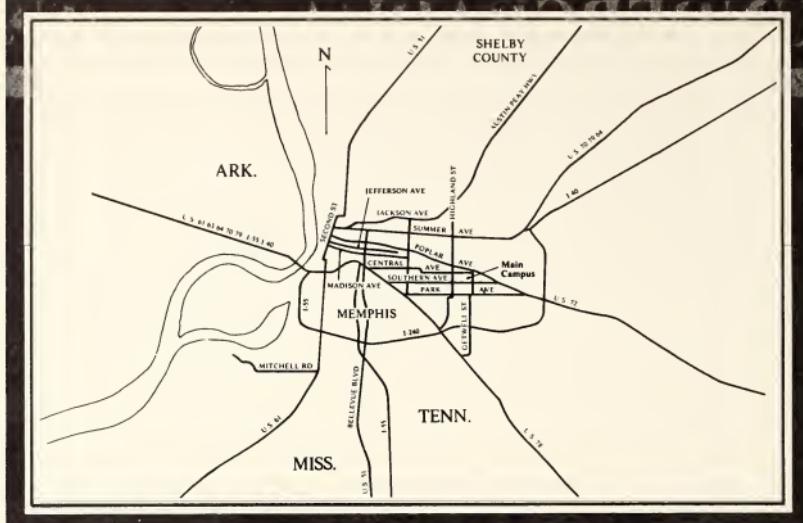


UNDERGRADUATE ISSUE

**Bulletin of
Memphis State University
1982-83**





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The validity date for degree requirements is summer, 1989.

The University reserves the right to cancel or alter any part of this Bulletin without notice (subject to the following):

The provisions of this bulletin constitute a contract between Memphis State University and a student who commences any program of study insofar as it relates to the degree requirements for that program during the effective period of this bulletin, and the degree requirements are subject to change during such period only to the extent required by federal or state laws or accreditation standards. The specific courses or activities constituting the degree requirements for any program are subject to substitution at any time prior to completion by the student.

The remaining provisions of this bulletin reflect the general nature of and conditions concerning the educational services of Memphis State University at this time, but do not constitute a contract or otherwise binding commitment between Memphis State and the student. Any fees, charges or costs, and all academic regulations set forth in this bulletin are subject to change at any

time, and all courses, programs and activities described in this bulletin are subject to cancellation or termination by Memphis State University or the State Board of Regents at any time.

The institution provides the opportunity for students to increase their knowledge by providing programs of instruction in the various disciplines and programs through faculty who, in the opinion of the institution, are qualified and qualified by teaching at the college level. However, the acquisition of knowledge by any student is contingent upon the student's desire to learn and his application of appropriate study techniques to any course or program. As a result, the institution does not warrant or represent that any student who completes a course or program of study will necessarily acquire any specific knowledge or skills or will be able to successfully pass or complete any specific examination for any course, degree, or license. (SBR 2:04:00:01)

SEE LAST TWO PAGES FOR ADMISSIONS APPLICATION

BULLETIN OF
MEMPHIS STATE UNIVERSITY

*The Seventy-first session will open
August 26, 1982*



Thomas G. Carpenter, Ph.D., President

Cecil C. Humphreys, Ph.D., President Emeritus

UNDERGRADUATE ISSUE

1982-1983

MEMPHIS, TENNESSEE

JUNE, 1982

Memphis State University offers equal educational opportunity to all persons without regard to race, religion, sex, creed, color, national origin, or handicap. The University does not discriminate on these bases in the recruitment and admission of students, the recruitment and employment of faculty and staff, and the operation of any of its programs and activities, as specified by federal laws and regulations. The designated coordinator for University compliance with Section 504 of the Rehabilitation Act of 1973 is the Vice President for Student Educational Services.

Directory for Correspondence

*Inquiries will receive attention if addressed to the administrative offices below
Memphis State University, Memphis, Tennessee 38152*

Admission	Dean of Admissions and Records (454-2101)
Degree Requirements	Dean of the college in which the degree is offered
Entrance Examination	Dean of Admissions and Records
Evaluation of Credits	Dean of Admissions and Records
Off-Campus Courses	Dean, Extended Programs
Financial and Business Affairs	Director of Finance
Graduate Studies	Dean of Graduate Studies
Handicapped Student Services	Director of Handicapped Student Services
Housing	Director of University Housing
Pre-Professional Curricula	Dean of the college in which the curriculum is offered
Registration	Dean of Admissions and Records
Scholarships and Loans	Director of Student Financial Aid
Transcripts	Dean of Admissions and Records
Veterans' Services	Coordinator of Veterans' Services
President of the University Administration Building (901) 454-2234	Dean of Admissions and Records Administration Building (901) 454-2101

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1982-83 UNIVERSITY CALENDAR

1982

S	M	T	W	T	F	S
AUGUST						
1	2	3	4	5	6	7
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SEPTEMBER						
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28	29	30	31			

The calendar is subject to change at any time prior to or during an academic term due to emergencies or causes beyond the reasonable control of the institution, including severe weather, loss of utility services, or orders by federal or state agencies. (SBR 2:04:00:01)

FALL SEMESTER 1982

AUGUST 23-26 Off-campus registrations (exact dates, times, and locations to be announced prior to registration)

AUGUST 26: Meeting of the new members of the University faculty, University Center Ball room, 9:00 A.M.

AUGUST 27: Meeting of the entire University faculty, University Center Ballroom, 9:00 A.M., followed by meetings of colleges and departments

AUGUST 28: Registration: The Graduate School

AUGUST 30-SEPTEMBER 1: Registration Week: For detailed dates and times, see the *Schedule of Classes* for the Fall Semester, 1982

SEPTEMBER 2: Classes meet as scheduled

SEPTEMBER 6: Holiday: Labor Day

SEPTEMBER 9:

Last day for adding courses

Last day for making application to the Dean of Graduate Studies for degrees to be conferred in December, 1982. (File the "Intent to Graduate Card" and submit "Application for Master's Degree Candidacy" papers.)

SEPTEMBER 29: Last day for removing Summer Session "Incomplete" grades

OCTOBER 22:

Last day for undergraduate students to withdraw from the University

Last day for all students to drop courses

NOVEMBER 9: Last day for graduate students to withdraw from the university

NOVEMBER 24: Last day for making application to the dean of the appropriate undergraduate college for degrees to be conferred in May, 1983.

NOVEMBER 25-28: Holidays: Thanksgiving

DECEMBER 9: Study Day

DECEMBER 10: Final examinations begin

DECEMBER 18: Commencement

SPRING SEMESTER 1983

JANUARY 4-7: Off-campus registrations (exact dates, times, and locations to be announced prior to registration)

JANUARY 10: Registration: The Graduate School

JANUARY 10-12: Registration Week: For detailed dates and times, see the *Schedule of Classes* for the Spring Semester, 1983.

JANUARY 13: Classes meet as scheduled

JANUARY 19:

Last day for adding courses

Last day for making application to the Dean of Graduate Studies for degrees to be conferred in May, 1983. (File the "Intent to Graduate Card" and submit "Application for Master's Degree Candidacy" papers.)

FEBRUARY 1: Last day for removing Fall Semester "Incomplete" grades

MARCH 4:

Last day for undergraduate students to withdraw from the University

Last day for all students to drop courses

MARCH 13-20: Spring Holidays

MARCH 29: Last day for graduate students to withdraw from the University

APRIL 13: Last day for making application to the dean of the appropriate undergraduate college for degree to be conferred in August, 1983

APRIL 28: Study Day

APRIL 29: Final examinations begin

MAY 7: Commencement

FIRST SUMMER TERM 1983

MAY 31-JUNE 1: Registration — For detailed dates and times, see the *Schedule of Classes* for the Summer Session, 1983

JUNE 2: Classes meet as scheduled

JUNE 6:

Last day for adding First Term courses

Last day for making application to the Dean of Graduate Studies for degree to be conferred in August, 1983

JUNE 17:

Last day for undergraduate students to withdraw from the University (First Summer Term)

Last day for all students to drop courses (First Summer Term)

JUNE 21: Last day for removing Spring Semester "Incomplete" grades

JUNE 23: Last day for graduate students to withdraw from the University (First Summer Term)

JULY 4: Holiday: Independence Day

JULY 7: Final examinations

SECOND SUMMER TERM

1983

JULY 11: Course adjustment day and registration for the Second Summer Term

JULY 12: Classes meet as scheduled

JULY 14: Last day to add or to register for Second term courses

JULY 27:

Last day for making application to the dean of the appropriate undergraduate college for degrees to be conferred in December, 1983

Last day for undergraduate students to withdraw from the University (Second Summer Term)

Last day for all students to drop courses (Second Summer Term)

AUGUST 2: Last day for graduate students to withdraw from the University (Second Summer Term)

AUGUST 12: Final examinations

AUGUST 14: Commencement

EXTENDED SUMMER TERM 1983

MAY 31-JUNE 1: Registration: For detailed dates and times, see the *Schedule of Classes* for the Summer Session

JUNE 2: Classes meet as scheduled

JUNE 6: Last day for making application to the Dean of Graduate Studies for degrees to be conferred in August, 1983

JUNE 7: Last day for adding Extended Summer Term courses or registering for the Extended Summer Term

JUNE 21: Last day for removing Spring Semester "Incomplete" grades

JULY 4: Holiday: Independence Day

JULY 6:

Last day for undergraduate students to withdraw from the University (Extended Summer Term)

Last day for all students to drop courses (Extended Summer Term)

JULY 11-12: Mid-Term Break

JULY 20: Last day for graduate students to withdraw from the University (Extended Summer Term)

JULY 27: Last day for making application to the dean of the appropriate undergraduate college for degree to be conferred in December, 1983

AUGUST 11: Study Day

AUGUST 12: Final examinations

AUGUST 14: Commencement

Dead Week. Definition: The four day period preceding final examinations and including Study Day (Thursday). No student social or athletic functions shall be scheduled during Dead Week.

Study Day. Definition. The day prior to final examinations during regular semesters. No academic activities shall be scheduled on Study Day. No study or review sessions which the student may feel obligated to attend may be scheduled.

Final Examination Period. No examination shall be given at a time other than the scheduled time except with written permission from the department chairman and the college dean. No social or athletic functions shall be scheduled during the Final Examination Period.

Intercollegiate athletics are excepted from the above policies.



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Description of the University



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GENERAL DESCRIPTION

Goals of the University

The primary purpose of Memphis State University is to advance learning. The University is dedicated first to the traditional ideals of learning by focusing its attention and efforts upon the creation, transmission, and application of knowledge. Secondly, it is committed to goals that are utilitarian in (1) preparing students to serve in a variety of professions and occupations, and in (2) providing services to society for improving the quality of life and environment. Through instruction, research, and public service, the University offers a diversity of learning opportunities for the pursuit of knowledge and truth in an atmosphere of free inquiry and open discussion. A community of learning, the University exists to nurture students in achieving intellectual competence, maturity, and self development.

Memphis State University recognizes its responsibility to meet the needs of a changing social and economic order. The University missions are primarily met through programs and activities of undergraduate education, graduate education, continuing education, and of research and public service. The undergraduate program offers a variety of experiences that are both liberal and specialized in character. Graduate education provides further opportunities in the professions, the arts, and the sciences. Continuing education serves the educational interests and needs of the community by promoting programs which complement the courses of study offered by degree granting colleges. Research and service activities — contributing to the vitality of sound instruction and learning — not only advance knowledge but also apply knowledge to the improvement of life and the environment. Each contributes to the basic purpose of the University — to promote learning.

Memphis State University is dedicated to these purposes:

1. Providing opportunities for its students to experience an education which is both liberal and specialized in character.
2. Preparing its students to serve in a variety of professions and occupations upon which society depends.
3. Developing graduates whose accomplishments attest to their intellectual discipline, curiosity, maturity, and professional competence.
4. Encouraging scholarly research and creative effort designed to advance the frontiers of knowledge and to enrich the cultural dimensions of society.
5. Providing services which bring knowledge to focus on societal problems, with particular emphasis on urban needs, for the purpose of improving the quality of life and environment.
6. Maintaining facilities and an atmosphere conducive to learning and the advancement of knowledge.

Historical Statement

In 1909, the General Assembly of Tennessee enacted a General Education law which provided for the establishment and maintenance of three normal schools, one school to be located in each of the three grand divisions of the state. Memphis and Shelby County contributed \$350,000 and a site of approximately 80 acres near the eastern edge of the city. On September 15, 1912, West Tennessee State Normal School opened.

In 1925, the institution became a senior college, and the name was changed to West Tennessee State Teachers College. In 1941, the school's liberal arts curriculum was enlarged, and the name was

changed to Memphis State College. The undergraduate program was reorganized into three schools in 1951, and a graduate school was added. On July 1, 1957, by action of the Tennessee legislature, the institution was designated Memphis State University.

Governing Body

The governance, management and control of Memphis State University is vested in the State Board of Regents. The seventeen member board includes four *ex officio* members: the Governor, the Commissioner of Education, the Executive Director of the Tennessee Higher Education Commission, and the Commissioner of Agriculture. Thirteen public members are appointed by the Governor: One member is selected from each congressional district, four members are selected at large from different geographical areas of the state, and there is one student member.

The members during the 1981-82 year were as follow:

THE HONORABLE LAMAR ALEXANDER, Governor of Tennessee, *ex officio*
 THE HONORABLE WILLIAM H. WALKER, III, Commissioner of Agriculture, *ex officio*
 THE HONORABLE ROBERT L. McELRATH, Commissioner of Education, *ex officio*
 THE HONORABLE G. WAYNE BROWN, Executive Director, Tennessee Higher Education Commission, *ex officio*
 THE HONORABLE GWEN W. AWSUMB, Memphis
 THE HONORABLE JAMES H. JONES, JR., Mount Pleasant
 THE HONORABLE C. C. BOND, Chattanooga
 THE HONORABLE RUTH ELLIS, Johnson City
 THE HONORABLE J. C. EOFF, JR., Tullahoma
 THE HONORABLE KENNETH EZELL, Murfreesboro
 THE HONORABLE WILLIAM W. FARRIS, Memphis
 THE HONORABLE DALE GLOVER, Obion
 THE HONORABLE JOHNETTA H. MARTIN, Nashville
 THE HONORABLE C. SCOTT MAYFIELD, Athens
 THE HONORABLE J. HOWARD WARF, Statutory, Hohenwald
 THE HONORABLE DAVID WHITE, Vice Chairman, Knoxville

Memphis State University is the largest of the institutions of higher education under the direction of the Board of Regents. The other institutions with baccalaureate and graduate programs are Austin Peay State University at Clarksville; East Tennessee State University at Johnson City; Middle Tennessee State University at Murfreesboro; Tennessee

State University at Nashville; and Tennessee Technological University at Cookeville.

Organization

Memphis State University is comprised of four main divisions: Academic Affairs, Business and Finance, Continuing Education and Special Programs, and Student Educational Services. The schools and colleges which comprise the University

are The Graduate School, The Cecil C. Humphreys School of Law, and six undergraduate colleges: Arts and Sciences, Fogelman College of Business and Economics, Communication and Fine Arts, Education, Herff College of Engineering, and University College. In addition, there are eight independent programs: Audiology and Speech Pathology, City and Regional Planning, Aerospace Studies, International Studies, Library Science, Military Science, Nursing, and

Urban Studies. The schools colleges, and independent programs are described in more detail elsewhere in the *Bulletin*.

Academic Programs

The degrees, majors, concentrations, and teaching endorsements offered by the University are listed in the chart below and under the description of The Graduate School.

Undergraduate Academic Programs

THE COLLEGE OF ARTS AND SCIENCES

Department	Major	Concentration Within Major	Degree Offered
Anthropology	Anthropology		Bachelor of Arts (B.A.) Bachelor of Science (B.S.)
Biology	Biology	(1) Botany (2) Microbiology (3) Invertebrate Zoology /Entomology (4) Vertebrate Zoology	Bachelor of Arts (B.A.) Bachelor of Science (B.S.)
Chemistry	Chemistry		Bachelor of Arts (B.A.) Bachelor of Science (B.S.) Bachelor of Science in Chemistry (B.S.Ch.)
	Physical Science		Bachelor of Arts (B.A.) Bachelor of Science (B.S.)
Criminal Justice	Criminal Justice		Bachelor of Arts (B.A.)
Economics	Economics		Bachelor of Arts (B.A.)
English	English		Bachelor of Arts (B.A.)
†Foreign Languages	Foreign Languages (With single language concentration from the first five or multiple language concentration from total list)	(1) French (2) German (3) Russian (4) Spanish (5) Latin (6) Greek (7) Italian	Bachelor of Arts (B.A.)
Geography	Geography	(1) Cartography (2) Environmental and Earth Science (3) Geography (4) Human Geography (5) Urban Geography	Bachelor of Arts (B.A.) Bachelor of Science (B.S.)
History	History		Bachelor of Arts (B.A.)
Mathematical Sciences	Mathematical Sciences	(1) Mathematics (2) Applied Mathematics (3) Statistics	Bachelor of Arts (B.A.) Bachelor of Science (B.S.)
	Computer Science		Bachelor of Science (B.S.)
Philosophy	Philosophy		Bachelor of Arts (B.A.)
Physics	Physics		Bachelor of Arts (B.A.) Bachelor of Science (B.S.)
Political Science	Political Science	(1) Political Science (2) Public Administration	Bachelor of Arts (B.A.)
Psychology	Psychology		Bachelor of Arts (B.A.) Bachelor of Science (B.S.)
Sociology and Social Work	Sociology	(1) General Sociology (2) Manpower (3) Social Research (4) Urban Sociology	Bachelor of Arts (B.A.)
	Social Work		Bachelor of Arts (B.A.)
Interdepartmental Programs	Comparative Literature		Bachelor of Arts (B.A.)
	Medical Technology		Bachelor of Science in Medical Technology (B.S.M.T.)

*A concentration in Russian requires a collateral foreign language concentration or a collateral major outside the Department of Foreign Languages.

†With the consent of the International Business advisor, Foreign Languages may also be a second or collateral major for the B.B.A. degree with a major in International Business.

Undergraduate Academic Programs

THE FOGELMAN COLLEGE OF BUSINESS AND ECONOMICS

Department	Major	Concentration Within Major	Degree Offered (B.B.A.)
Accountancy	Accounting		Bachelor of Business Administration
Economics	Business Economics		Bachelor of Business Administration
Finance, Insurance and Real Estate	Finance		Bachelor of Business Administration
	Insurance		Bachelor of Business Administration
	Real Estate		Bachelor of Business Administration
Management	Management	(1) General Management (2) Production Management (3) Personnel Administration and Industrial Relations (4) Quantitative Methods and Business Systems	Bachelor of Business Administration
Marketing	Marketing	(1) Advertising (Marketing Communications) (2) General Marketing (3) Retailing (4) Sales (5) Transportation and Logistics (6) Agrimarketing	Bachelor of Business Administration
Office Administration	Office Administration	(1) Secretarial (2) Office Management (3) Legal Office Management	Bachelor of Business Administration
	Legal Assistant		Certificate
Interdisciplinary Program	International Business		Bachelor of Business Administration
	†Foreign Languages		
	Entrepreneurship		Certificate

†In the B.B.A. degree, Foreign Languages may be used only as a collateral or second major to accompany International Business.

THE COLLEGE OF COMMUNICATION AND FINE ARTS

Department	Major	Concentration Within Major	Degree Offered
Art	Art	(1) Art Education (2) Graphic Design (3) Interior Design (4) Ceramics, Painting, Sculpture, Printmaking (5) Design	Bachelor of Fine Arts (B.F.A.)
	Art History		Bachelor of Arts (B.A.)
Journalism	Journalism	(1) Advertising (2) Broadcast News (3) News Editorial (Magazine) (Newspaper) (Photo Journalism) (4) Public Relations	Bachelor of Arts (B.A.)
Music	Music	(1) Brass Instruments (2) Church Music (Choral) (Organ) (3) Composition (4) Music History (5) Music Theory (6) Organ (7) Percussion (8) Piano and/or Harpsichord (Chamber Music) (Pedagogy) (Performance) (9) Strings (10) Voice/Opera (Voice) (Opera) (11) Woodwinds	Bachelor of Music (B.M.)
	Commercial Music	(1) Music Business (2) Recording Engineering (1) Studio/Live Performance (2) Composition/Arranging	Bachelor of Fine Arts (B.F.A.)
		(1) Studio/Live Performance (2) Composition/Arranging	Bachelor of Music (B.M.)
Theatre and Communication Arts	Theatre and Communication Arts	(1) General Speech and Theatre (2) Broadcasting (3) Communication (4) Film and Videotape Production (5) Theatre	Bachelor of Arts (B.A.)
	Theatre	(1) Performance (2) Production (3) Dance	Bachelor of Fine Arts (B.F.A.)

Undergraduate Academic Programs

THE COLLEGE OF EDUCATION

Department	Major (Concentration)	**ENDORSEMENTS		Degree Offered
		Major Endorsement	Minor Endorsement	
Curriculum and Instruction	Elementary Education	Elementary Education	Kindergarten	Bachelor of Science in Education (B.S.Ed.)
	Early Childhood Education (K-3)			
	Secondary Education	Art Education Business Education Distributive Education English Foreign Languages French German Latin Russian Spanish Health Education Elementary Physical Education Secondary Physical Education Industrial Arts Education Mathematics Math & Phys. Science Music Education Instrumental Music School Music Science Biology Chemistry Earth & Space Sciences General Science Physics Social Studies Economics Geography Government History Sociology Special Education Speech and Drama Vocational Home Economics	Business Education Secretary Practice Bookkeeping General Business Typewriting Economics, Consumer Education, General Business, Business Law Distributive Education Driver Education English Foreign Languages French German Latin Russian Spanish Health Education Elementary Physical Education Secondary Physical Education Industrial Arts Education Librarian Mathematics Psychology Science Biology Chemistry Earth & Space Sciences General Sciences Physics Social Studies Economics Geography Government History Sociology Special Education Speech and Drama	
Health, Physical Education and Recreation	Health Education Physical Education (Elementary) (Secondary)	Health Education Elementary Physical Education Secondary Physical Education	Health Education Elementary Physical Education Secondary Physical Education	Bachelor of Science in Education (B.S.Ed.)
	*Recreation and Park Administration			
Home Economics and Distributive Education	*Home Economics (Food Administration) (Dietetics) (Merchandising-Fashion) (Merchandising-Home Furnishings) Vocational Home Economics (Occupational Child Care Services) (Occupational Clothing Services) (Occupational Food Services) Distributive Education	Vocational Home Economics Distributive Education		Bachelor of Science in Home Economics (B.S.H.E.) Bachelor of Science in Education (B.S.Ed.) Bachelor of Science in Education (B.S.Ed.)
Music (College of Communication and Fine Arts)	Music Education (Instrumental Music) (School Music)	Music Education Instrumental Music School Music		Bachelor of Music Education (B.M.Ed.)
Special Education and Rehabilitation	Special Education Rehabilitation Education (General) OR (Rehabilitation of the Public Offender) (Vocational Evaluation)	Special Education	Special Education	Bachelor of Science in Education (B.S.Ed.)

*Not approved as a valid certification area in Tennessee

**The endorsements are listed only with the departments in which they are offered, but they may accompany any major.

Undergraduate Academic Programs

THE HERFF COLLEGE OF ENGINEERING

Department	Major	Concentration Within Major	Degree Offered
Civil Engineering	Civil Engineering*	(1) Construction Engineering (2) Environmental Engineering (3) Foundation Engineering (4) Structural Engineering (5) Transportation Engineering	Bachelor of Science in Civil Engineering (B.S.C.E.)
Electrical Engineering	Electrical Engineering*	(1) Solid State Electronics (2) Energy Conversion (3) Control Systems (4) Computer Science (5) Microwave and Antenna Systems	Bachelor of Science in Electrical Engineering (B.S.E.E.)
Geology	Geology		Bachelor of Science in Geology (B.S.G.)
Mechanical Engineering	Mechanical Engineering*	(1) Design and Manufacturing (2) Energy Systems (3) Mechanical Systems	Bachelor of Science in Mechanical Engineering (B.S.M.E.)
Engineering Technology	Architectural Technology*		Bachelor of Science in Engineering Technology (B.S.E.T.)
	Computer Systems Technology*		Bachelor of Science in Engineering Technology (B.S.E.T.)
	Construction Technology*		Bachelor of Science in Engineering Technology (B.S.E.T.)
	Electronics Technology*		Bachelor of Science in Engineering Technology (B.S.E.T.)
	Manufacturing Technology*		Bachelor of Science in Engineering Technology (B.S.E.T.)
	Trade and Industrial Vocational-Technical Education	(1) General (2) Industrial Arts	Bachelor of Science in Technology (B.S.T.)

*Note: Accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET)

THE UNIVERSITY COLLEGE

Department	Major	Concentration Within Major	Degree Offered
*	Individual Studies	**	Bachelor of Liberal Studies (B.L.S.) Bachelor of Professional Studies (B.P.S.)

*The College is not comprised of departments. Its programs are interdisciplinary and may make use of all departments in the University.

**The student and an advisory committee design contract degrees.

INDEPENDENT PROGRAMS

Department	Major	Concentration Within Major	Degree Offered
Nursing	Nursing		Bachelor of Science in Nursing (B.S.N.)
Urban Studies	†Urban Studies		Bachelor of Arts (B.A.)
**International Studies	†Latin American Studies		Bachelor of Arts (B.A.)
	International Relations	(1) American Foreign Policy (2) Western Europe (3) Latin America (4) Asia (5) Soviet (6) Sub-Saharan Africa (7) Middle East and North Africa	Bachelor of Arts (B.A.)
	African Studies		Certificate

**See also the listing for The Fogelman College of Business and Economics.

†Collateral Major recommended.

Accreditation and Institutional Membership

The University is fully accredited by the Southern Association of Colleges and Schools and is a member of the Tennessee College Association, the American Association of Colleges for Teacher Education, and the National Collegiate Athletic Association. The various colleges, schools and departments and/or the curricula are accredited by, or are members of, the following:

American Assembly of Collegiate Schools of Business
American Association of State Colleges and Universities
American Association of University Women
American Bar Association
American Chemical Society
American College and University Concert Managers
American Council on Education for Journalism
American Dietetics Association
American Psychological Association
American Speech and Hearing Association
Association of American Law Schools
Association of University Evening Colleges
Board of Law Examiners of Tennessee
Council on Rehabilitation Education
Council on Social Work Education

National Association of Schools of Art
National Association of Schools of Music
National Association of Summer Sessions
National Commission on Accrediting
National Council for Accreditation of Teacher Education
National League for Nursing
National Opera Association
Oak Ridge Associated Universities
Southern Universities Student Government Association
Technology Accreditation Commission of the Accreditation Board for Engineering and Technology
Tennessee Board of Nursing
Tennessee Education Association

FACILITIES AND SERVICES

The facilities and services described below are some of the many available to University students and faculty. Some of the other facilities and services are described in the particular college and department sections of the *Bulletin*.

Evening Academic Services

R. WILSON WALKER, *Dean*
Administration Building, Room 167

The Evening Academic Services office provides the full range of academic services to evening and Saturday students normally available to regular day students. The services include academic advising; career, vocational, personal, and change of major counseling; registration assistance; transcript request and evaluations; course drop, add and withdrawals; financial aid, health service and other referrals; admissions and readmissions; counseling; orientation information; traffic and parking fees, decals and tickets; Notary Public services.

Library Facilities

LESTER J. POURCIAU, JR., *Director*
Brister Library, Room 101A

The libraries of Memphis State University include the John Willard Brister Library and specialized collections in the Department of Chemistry, the Department of Mathematical Sciences, the Department of Music, the Herff College of Engineering, the School of Law, the Speech and Hearing Center, and the Bureau of Business and Economic Research. The total collection numbers more than 900,000 bound volumes and some 1,750,000 pieces of micromaterial.

The Brister Library contains a reference and bibliography section, an interlibrary loan service, a map collection, the Mississippi Valley Collection (reflecting the history and culture of that region). It is also a depository for United States government documents and Tennessee State documents. Private study carrels are available for a maximum assignment of one year to faculty members and graduate students engaged in research.

Memphis State University has agreements with Southwestern at Memphis, the University of Tennessee Medical Units, and with Christian Brothers College for a shared use of library collections by the students, faculty, and staff of these institutions.

Computer Facilities

Computing support for the instructional program of the University and for faculty research is provided by Computer Services. The central academic computing system is a Sperry-Univac 1100/62 which has over eight million characters of main storage and which supports both time-sharing and remote batch job entry. Remote batch job entry stations are located in the Herff College of Engineering.

, the Fogelman College of Business and Economics, the Administration Building, and Winfield Dunn Building (Mathematics and Foreign Languages Building).

Center for Instructional Services and Research

RAOUL A. ARREOLA, *Director*
Brister Library, Room 202

The primary mission of the Center for Instructional Services and Research is to provide a series of instructional support, development, and evaluation services to the University community. The services are provided by four primary divisions of the Center.

Instructional Design and Development Division provides a variety of services and programs which include consultation in designing instructional material and methodologies using educational technology. Faculty efforts in instructional improvement are also supported by the Instructional Improvement Awards Program which provides grants to faculty who wish to pursue well conceived instructional development projects. In addition, this division operates the Laboratory for Individualized Learning and Instruction, which is a service facility that enables faculty to place self-instructional modules in a central location where students may engage in individualized learning and instruction.

Evaluation Services Division operates the student rating of the instructional program, offers consultation services to faculty on techniques and procedures for evaluating student achievement, and provides a professional level test-scoring and analysis service.

Learning Media Center has a full array of media services including film previewing, graphic production, and video tape duplication. The LMC also operates the University's film and audio-visual equipment library. Graphic design and production services are provided through the production of slides, transparencies, and other graphic material required for instructional purposes.

Instructional Television Division operates a full range of professional television production services for use in classroom instruction. This division provides access to a modern television studio for use in the production of instructional videotapes for classroom use.

University Advancement and Public Service

VAN N. OLIPHANT
Executive Assistant to the President

The Office of University Advancement and Public Service has overall responsibility for the coordination and development of University outreach activities. This office assists with the quarterly publications of *Memphis State Magazine* for friends and contributors to the University and *The Columns*, a newspaper for University alumni. Other outreach activities are directed through:

Alumni

The Memphis State University Alumni Center is located on campus at the corner of Normal and Spottswood. The staff serves the Memphis State University National Alumni Association providing a communication linkage to the University for graduates and former students. The Alumni Association and staff also offer special services for current students and serve as the sponsors for the University's Student Ambassador Board. The Alumni Office may be contacted by phone at (901) 454-2701.

Development

The Office of Development, located in the Administration Building, serves as the catalyst and coordinator for private financial support of Memphis State University's academic and athletic programs. With approximately fifty percent of the University's annual operating budget provided by the State of Tennessee, other income must be generated by student tuition, other fees, and private and corporate segments of the community in securing annual and endowed gifts which are used to enrich the academic and athletic programs as well as initiate new programs. The Development Office may be reached by phone at (901) 454-2155.

Public Service

In recognition of the University's responsibility to serve the needs of a changing social and economic order, the Public Service Office serves as a prime contact for individuals and organizations outside the University. Through this Office, located in the Administration Building, access may be gained to University facilities and resources. Inquiries and requests should be directed to the staff at (901) 454-2584.

Memphis State University Press

J. RALPH RANDOLPH, *Director*
Administration Annex, Room 340

In 1968, Memphis State University Press was established as a book publishing department of Memphis State University. Its editorial policies are controlled by a committee composed of the Press's director and faculty members and administrators appointed by the President. The editorial policy of the Press is to promote the development and publication of scholarly books and books of interest to the general reader. The Press welcomes works of regional interest on Tennessee and the Mid-South. In emphasizing scholarly works, the Press gives preference to those of wide appeal to the academic community.

Continuing Education and Special Programs

JOHN A. RHODES, Ph.D., *Vice President*
Administration Building, Room 360

Instructional Services

The Office of Continuing Education and Special Programs offers services enrich-

ing and extending the traditional full-time program. Each of these services is designed to increase the availability of the faculty and the facilities of the University as well as CEU (Continuing Education Unit) and non-credit activities, to metropolitan Memphis and the Mid-South region.

Conference Services

The Division of Conferences and Seminars provides CEU and non-credit programs in various occupational, technical, and general education fields. It assists state agencies, educational institutions, recognized civic organizations, professional groups, and departments of the University in the development and presentation of conferences to provide a wide variety of educational opportunities for adults. Staff members assist in planning programs, preparing and distributing printed materials, and conducting conferences, seminars and workshops. Professional, business and cultural groups who wish to avail themselves of the services of the teaching staff and the facilities of the University, either on or off the main campus, are welcome to schedule instructional meetings through the Division of Conferences and Seminars (454-2021).

Special Interest, Non-Credit Short Courses

These classes are for persons who have a particular interest in a subject but who do not wish to engage in the formalities of admission, grades and examinations. The courses offered embrace a variety of topics focusing on personal enrichment and professional development. A catalog of non-credit courses to be offered is printed prior to the beginning of each semester and may be obtained by contacting the Division of Short Course Instruction (454-2700).

Center for Nuclear Studies

The Center for Nuclear Studies conducts development programs in the fields of education and research for nuclear and other energy related fields. This center was designated as the nation's first regional center for nuclear manpower development by the Southern Interstate Nuclear Board. In the field of education, the Center develops programs directed toward matching University education to the needs of industry and government. Training programs in industrial specialties are offered both on campus and at industrial plant sites throughout the nation. In the field of research, the Center works with University faculty, administration, and other members of the community in developing new research projects related to industrial needs and in providing equipment necessary for the efficient pursuit of these projects. The equipment available through the Center for University research includes a nuclear reactor and specialized analysis equip-

ment. Educational programs in the Center for Nuclear Studies are administered through the Office of Continuing Education and Special Programs.

Continuing Education Unit

The awarding of Continuing Education Units (CEUs) is part of a national movement to provide records for participation in non-credit continuing education activities. Many organizations and professions are requiring adults to continue their education. The use of CEU is an effort to provide a standard unit of measurement by which these organizations and professions may grant the proper recognition to their constituents for having participated in continuing education programs. CEUs do not constitute academic credit earned at Memphis State University.

Participants in certain approved programs sponsored by the Office of Continuing Education and Special Programs are awarded Continuing Education Units. One unit is awarded for each ten hours of instruction, with decimal units given for fewer than ten hours. These units are recorded on a permanent transcript of CEUs earned by submitting a request to the University Records Office. Copies will be forwarded to designated groups, associations or employers when requested by the participant.

International Training Program

The International Training Program, administered by the Office of Continuing Education and Special Programs, is responsible for developing educational and training programs to meet the needs of internationals in Memphis, the surrounding area and from abroad. Language instruction in all areas is provided for non-English speakers by the Intensive English for Internationals Program, which offers classes at beginning, intermediate and advanced levels. The program runs on a semester basis coinciding with the University's academic calendar, with an 8-week session each summer.

Students coming to Memphis State University for the specific purpose of studying English through the Intensive English program and who are issued an I-20 by the University must enroll in the full-time course. Classes designed to meet special needs can also be arranged outside of regularly scheduled classes. Registration and credit in the form of Continuing Education Units (CEUs) are processed through Continuing Education, and students successfully completing the course of study receive a certificate of attendance.

For more information about Intensive English for Internationals or other training programs, contact the International Training Program at 454-2813.

The Graduate School

EDMUND P. SEGNER, JR., B.S.C.E.,
M.S.C.E., Ph.D.
Associate Vice President for Research
ALICIA C. TILLEY, B.S., M.Ed., Ed.D.,

Dean for Graduate Studies
Administration Building, Room 315

PURPOSE

The Graduate School of Memphis State University is the center of advanced study and research within the university. The basic objectives of The Graduate School are (a) to preserve and disseminate knowledge; (b) to extend knowledge through research; and (c) to prepare men and women to assume a more responsible and useful role in a changing society.

ADMISSION

The Graduate School is open to persons holding the bachelor's degree from colleges and universities recognized by standard, general and regional accrediting agencies, and whose undergraduate work has been of sufficient quality and scope to enable them to pursue graduate study profitably. Satisfactory entrance examination scores are required for all students who seek to be admitted to graduate study. A prospective student should contact The Graduate School Office to ascertain admission requirements and the appropriate examination to be taken.

The regulations and policies of The Graduate School are explained in greater detail in *The Graduate School Bulletin*. Application for admission must be made on the admission application form supplied by The Graduate School. Inquiries concerning The Graduate School should be addressed to the Dean of Graduate Studies.

PROGRAMS

A student may study in thirty-nine departments with various majors and areas of specialization. The master's degree is offered by each of the thirty-nine departments. The Doctor of Philosophy degree is offered through the departments of audiology and speech pathology, biology, chemistry, history, mathematical sciences, and psychology. The Doctor of Musical Arts is offered through the Department of Music. The Doctor of Education and Education Specialist degrees are offered through various departments within the College of Education. The Doctor of Business Administration degree is offered through the Fogelman College of Business and Economics.

The Cecil C. Humphreys School of Law

NICHOLAS L. WHITE, J.D., Dean
Room 209, Law School Building

PROGRAM

The Cecil C. Humphreys School of Law offers a program of instruction leading to the degree of Juris Doctor. A student may enroll in a full-time program and attend classes during the day, or in a part-time program and attend classes in the evening. A student in the full-time program may graduate in three academic years. A student in the part-time program may graduate in four academic years plus work in summer sessions. A student regu-

larly employed more than 15 hours per week may not pursue the full-time program.

The successful completion of 90 semester hours of work, including all required courses, with the prescribed grade average is necessary for graduation. The last 28 semester hours must be taken in this school.

ADMISSION

Admission to The Cecil C. Humphreys School of Law is on a selective basis. To be eligible for admission, a student must have received a bachelor's degree from an accredited college or university and must have made a satisfactory score on the Law School Admission Test administered by the Law School Admission Serv-

ices, Box 2000, Newtown, PA 18940. Questions concerning additional admissions requirements should be directed to the Director of Law Admissions and Student Recruitment.

Admission to advance standing may be given to a student who qualifies for admission and who is eligible for reenrollment in the law school in which his previous work has been taken, provided that such school is accredited by the American Bar Association.

The regulations and policies of The School of Law are set out in greater detail in a separate bulletin. Applications for admission must be made on forms supplied by The School of Law. Inquiries should be addressed to the Director of Law Admissions and Student Recruitment, Room 201, Law Building.

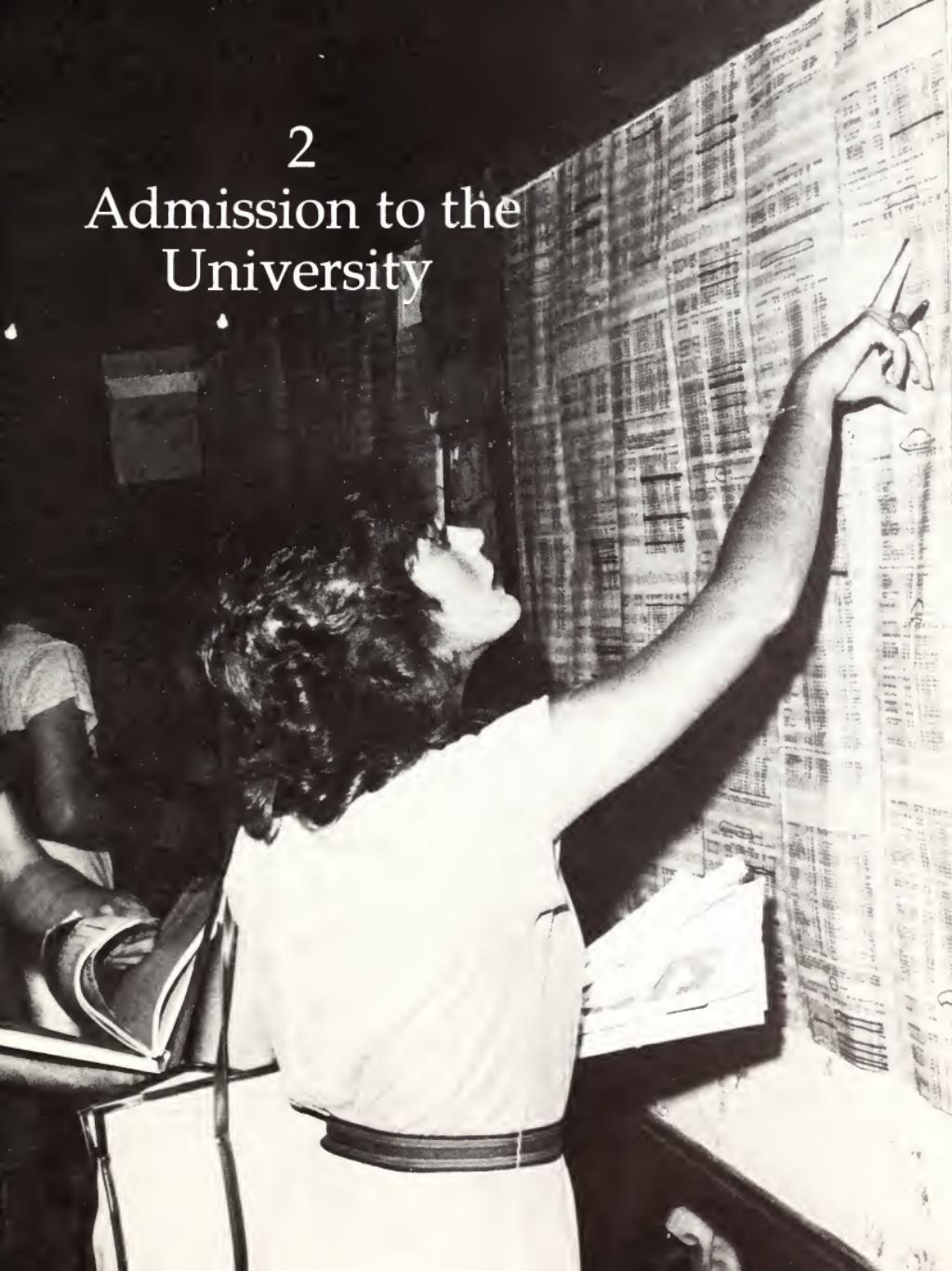
GRADUATE ACADEMIC PROGRAMS

Department	Major	Concentrations	Degree Offered
Accountancy	Accounting		Master of Science (M.S.) Master of Professional Accountancy (M.P.Acc.)
	Business Administration	Accountancy	Master of Business Administration (M.B.A.) Doctor of Business Administration (D.B.A.)
Anthropology	Anthropology	(1) Urban Anthropology (2) Medical Anthropology (3) Archaeology	Master of Arts (M.A.)
Art	Studio Art	(1) Painting (2) Sculpture (3) Printmaking (4) Graphic Design (5) Interior Design (6) Ceramics	Master of Fine Arts (M.F.A.)
	Art	(1) Art History (2) Art Education	Master of Arts (M.A.) Master of Arts in Teaching (M.A.T.)
Audiology and Speech Pathology	Audiology and Speech Pathology	(1) Audiology (2) Speech Pathology	Master of Arts (M.A.) Doctor of Philosophy (Ph.D.)
Biology	Biology	(1) Immunohematology (2) Botany (3) Cell Biology (4) Invertebrate Zoology (5) Microbiology (6) Vertebrate Zoology	Master of Science (M.S.) Master of Science (M.S.) Doctor of Philosophy (Ph.D.)
	Business Administration	(1) Accountancy (2) Finance, Insurance, Real Estate (3) Law (4) Management (5) Management Science (6) Economics (7) Marketing (8) Executive (1) Accountancy (2) Applied Economics (3) Finance (4) Management (5) Management Science (6) Marketing	Master of Business Administration (M.B.A.) Doctor of Business Administration (D.B.A.)
Chemistry	Chemistry	(1) Inorganic (2) Analytical Chemistry (3) Organic (4) Physical Chemistry (5) Biochemistry	Master of Science (M.S.) Doctor of Philosophy (Ph.D.)
Civil Engineering	Civil Engineering	(1) Environmental Engineering (2) Foundation Engineering (3) Structural Engineering (4) Transportation Engineering	Master of Science (M.S.)

GRADUATE ACADEMIC PROGRAMS			
Department	Major	Concentrations	Degree Offered
Counseling and Personnel Services	Counseling and Personnel Services	(1) Elementary School Counseling and Guidance (2) Secondary School Counseling and Guidance (3) General Counseling and Guidance (4) Community Agency Counseling (5) Student Personnel Services (6) Corrections Counseling	Master of Education (M.Ed.) Master of Science (M.S.)
	Personnel Services	(1) Counseling and Guidance (2) Counseling (3) Higher Education	Education Specialist (Ed.S.) Doctor of Education (Ed.D.)
Criminal Justice	Criminal Justice		Master of Arts (M.A.)
Economics	Economics		Master of Arts (M.A.)
	Business Administration	Economics Applied Economics	Master of Business Administration (M.B.A.) Doctor of Business Administration (D.B.A.)
Education (Interdepartmental)	Curriculum and Instruction	(1) Adult Education (2) Higher Education	Master of Science (M.S.)
		(3) Curriculum	Master of Education (M.Ed.)
		(4) Business Education	Master of Arts in Teaching (M.A.T.)
		(5) Instructional Design and Technology (6) Reading	Master of Science (M.S.) Master of Education (M.Ed.)
		(7) Elementary Education (8) English/Language Arts Education (9) Foreign Language Education (10) Mathematics Education (11) Secondary Education (12) Science Education (13) Social Studies Education	Master of Education (M.Ed.) Master of Arts in Teaching (M.A.T.)
		(14) Early Childhood Education (1) Music Education	(M.S.) (M.Ed.) (M.A.T.) Education Specialist (Ed.S.)
		(2) Adult Education (3) Business Education (4) Curriculum (5) Early Childhood Education (6) Elementary Education (7) English/Language Arts Education (8) Foreign Language Education (9) Higher Education (10) Instructional Design and Technology (11) Mathematics Education (12) Reading (13) Science Education (14) Secondary Education (15) Social Studies Education	Education Specialist (Ed.S.) Doctor of Education (Ed.D.)
		(1) General (2) Elementary (3) Secondary	Master of Science (M.S.)
		(1) Superintendency (2) Elementary (3) Secondary	Education Specialist (Ed.S.)
		(4) Higher Education	Education Specialist (Ed.S.) Doctor of Education (Ed.D.)
		(1) General (2) Adult, Continuing, and Community Education	Doctor of Education (Ed.D.)
Electrical Engineering	Electrical Engineering	(1) Solid State Electronics (2) Automatic Control Systems (3) Engineering Computer Systems (4) Microwave and Antenna Systems	Master of Science (M.S.)
Engineering Technology	Technical Education	(1) Architectural (2) Construction (3) Electronics (4) Manufacturing (5) Industrial Arts (6) Trade and Industrial-Vocational Technical Education	Master of Science (M.S.)
English	English		Master of Arts (M.A.)
Finance, Insurance, and Real Estate	Finance		Master of Science (M.S.)
	Business Administration	Finance, Insurance, Real Estate	Master of Business Administration (M.B.A.)
		Finance	Doctor of Business Administration (D.B.A.)

GRADUATE ACADEMIC PROGRAMS			
Department	Major	Concentrations	Degree Offered
Foreign Languages	Romance Languages	(1) French (2) Spanish	Master of Arts (M.A.)
Foundations of Education	Foundations of Education	(1) Cultural Foundations (2) Educational Psychology (3) Research Methodology and Statistics	Master of Science (M.S.)
		(1) Cultural Foundations (2) School Psychology (3) Research Methodology and Statistics	Education Specialist (Ed.S.)
		(1) Cultural Foundations (2) Educational Psychology (3) Research Methodology and Statistics (4) Higher Education	Doctor of Education (Ed.D.)
Geography	Geography		Master of Arts (M.A.) Master of Science (M.S.)
Geology	Geology		Master of Science (M.S.)
Health, Physical Education and Recreation	Health, Physical Education and Recreation	(1) School Health (2) Physical Education	Master of Education (M.Ed.)
		(3) Community Health (4) Recreation	Master of Science (M.S.)
History	History		Master of Arts (M.A.) Doctor of Philosophy (Ph.D.)
Home Economics and Distributive Education	Home Economics	(1) Home Economics Education (2) Fashion Merchandising (3) Housing and Home Furnishings (4) Nutrition	Master of Science (M.S.) -
	Distributive Education		Master of Education (M.Ed.)
Interdepartmental Programs	Natural Science		Master of Science (M.S.)
	Mathematical Sciences		Master of Science (M.S.)
	Industrial Systems Analysis		Master of Science (M.S.)
	Individual Studies	(by contract)	Master of Arts (M.A.) Master of Science (M.S.)
Library Science	Library Service		Master of Science (M.S.)
Management	Management		Master of Science (M.S.)
Marketing	Business Administration	(1) Management (2) Management Science	Master of Business Administration (M.B.A.) Doctor of Business Administration (D.B.A.)
	Marketing		Master of Science (M.S.)
Mathematical Sciences	Mathematics	(1) General Mathematics (2) Statistics (3) Computer Sciences	Master of Science (M.S.)
		(1) College Teaching (2) Applied Statistics	Doctor of Philosophy (Ph.D.)
Mechanical Engineering	Mechanical Engineering	(1) Design and Manufacturing (2) Energy Systems (3) Fluid Power Systems (4) Mechanical Systems	Master of Science (M.S.)
Music	Music	(1) Applied Music (a) Composition (b) Piano (c) Vocal Pedagogy (d) Vocal Performance (e) Organ (f) Strings Pedagogy (g) Strings Performance (h) Brass (i) Woodwinds (j) Percussion (k) Harpsichord (l) Opera Production and Directing (2) Sacred Music (3) Music Theory (4) Music History (5) Orff-Schulwerk (6) Suzuki Pedagogy (Piano)	Master of Music (M.Mu.)
		(7) Musical Arts: Ethnic Music (South Central Region)	Master of Arts (M.A.)
	Musical Arts	(1) Composition (2) Musicology: Regional Studies (3) Music Education (4) Performance (5) Sacred Music	Doctor of Musical Arts (D.M.A.)
Office Administration	Business Education and Office Management	Business Education	Master of Education (M.Ed.) Master of Science (M.S.)
Philosophy	Philosophy		Master of Arts (M.A.)
Physics	Physics		Master of Science (M.S.)

GRADUATE ACADEMIC PROGRAMS			
Department	Major	Concentrations	Degree Offered
Planning	City and Regional Planning	(1) Developmental Planning (2) Urban Revitalization Planning (3) Natural and Environmental Resources Planning	Master of City and Regional Planning (M.C.R.P.)
Political Science	Political Science		Master of Arts (M.A.)
	Public Administration	(1) Urban Management and Planning (2) Comparative and Development Administration (3) General (4) Health Services Administration (5) Public Policy Analysis / Program Evaluation (6) Criminal Justice Administration	Master in Public Administration (M.P.A.)
Psychology	Psychology	(1) General Psychology	Master of Science (M.S.)
	School Psychology		Master of Arts (M.A.)
	Psychology	(1) Clinical Psychology (a) Neuropsychology (b) Applied (2) Experimental Psychology (a) Biopsychology (b) Learning Behavior Analysis (c) Sensory Processes (d) Neuropsychology (e) Behavior Management (f) Human Developmental Retardation (g) Industrial Psychology (h) Personality-Cognitive Processes (i) Social Psychology	Doctor of Philosophy (Ph.D.)
Sociology and Social Work	Sociology		Master of Arts (M.A.)
Special Education and Rehabilitation	Special Education and Rehabilitation	(1) Educationally Handicapping Conditions (2) Pre-School Education of Exceptional Children (3) Multihandicapped	Master of Education (M.Ed.)
		(4) General (5) Rehabilitation Counseling	Master of Science (M.S.) Education Specialist (Ed.S.) Doctor of Education (Ed.D.)
Theatre and Communication Arts	Communication	(1) Radio-TV-Film (2) Rhetoric and Communication Arts (3) Theatre	Master of Arts (M.A.)
	Theatre		Master of Fine Arts (M.F.A.)



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Admission to the University

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ADMISSION TO THE UNIVERSITY

Memphis State University offers equal educational opportunity to all persons without regard to race, religion, sex, creed, color, national origin or handicap. Inquiries about admission to any college of the University should be addressed to the Office of Admissions. This office receives and processes all applications, evaluates credentials, and issues notices of acceptance to qualified students. Undergraduate students may enter at the beginning of either of the regular semesters or at the beginning of any term of the summer session.

An application for admission is in the back of this *Bulletin*. The established deadlines for submitting regular undergraduate applications for admission are August 1 for the fall semester, December 1 for the spring semester, and May 1 for the summer session. Applications received after these deadlines will be considered only for one of the special categories listed later in this section. All applications must be accompanied by a five-dollar (\$5.00) non-refundable appli-

cation fee. This fee is payable one time only regardless of the level for which the student is applying.

Certain instructional programs of the University are subject to special admission requirements. These programs necessitate special admission requirements and are subject to change due to the availability of institutional resources. Students wishing to enter one of these programs of study should check with the appropriate department or division offering the program in order to become familiar with these special requirements. Undergraduate programs with special admission requirements include professional degrees in art, music, or theatre (Bachelor of Fine Arts or Bachelor of Music), teacher certification, nursing, University College, and Nuclear Studies.

The applicant is advised to have all credentials on file well in advance (preferably thirty days) of the registration period for the term for which application is made. All credentials become the property of the University and cannot be forwarded or returned.

Credentials will be maintained in active files for a 12 month period. After this period, credentials will be relegated to inactive status and must be submitted again before an admission decision can be made.

ADMISSION AS REGULAR UNDERGRADUATES

Freshmen Applicants

The established deadlines for submitting applications for admission are August 1 for the fall semester; December 1 for the spring semester, and May 1 for the summer session.

An applicant who has no previous college enrollment may qualify for admission as a freshman by meeting the following requirements:

1. HIGH SCHOOL GRADUATION

- A. By a transcript of credits showing graduation from an approved or an accredited high school. Graduates of an unapproved or a non-accredited high school must take the General Educational Development test and earn an average standard score of at least 45. This GED requirement is waived for students who earn the minimum ACT required for guaranteed admission. Students who do not present one unit of American History are required to register for the course during their first or second year at the University.
- B. By General Educational Development Test — Applicants 18 years of age or older who are not high school graduates may satisfy the graduation requirement by submitting G.E.D. scores averaging 45 or more. Testing may be arranged by contacting the local Board of Education.

2. ENTRANCE EXAMINATION

Applicants must submit acceptable scores earned on the test administered by the American College Testing Program. These scores may be furnished by your high school or directly from the testing agency. (American College Testing Program, P.O. Box 414, Iowa City, Iowa, 52243) Applicants who have been out of high school for a period of six months or more are eligible to take

an admission test administered by Memphis State University. Students are urged to visit or telephone the Office of Admissions (prior to or after making application) for additional information or clarification of test score requirements. Special testing arrangements may be made for handicapped persons by contacting the Testing Center or by telephoning (901) 454-2428. NOTE: In cases involving the availability of the ACT or the timeliness of a test administration, the SAT may be considered.

The Admission Requirements are as follow:

A. Guaranteed Admission

Minimum ACT composite score of 18 OR a 3.0 cumulative grade point average on a 4.0 scale from an accredited or approved high school.

B. Reviewed by Committee

Applicants with an ACT composite score of 16 or 17 OR at least 2.00 cumulative high school grade point average on a 4.0 scale will be considered for admission by committee. Applicants who fall in this category should also submit the following:

1. Personal Statement — a letter written by the applicant to a committee including the following: (a) an outline of activities in high school and extra curricular activities (employment, etc.), (b) personal interests, and (c) reason applicant wants to attend college and specifically Memphis State University.
2. Recommendations from at least one of the following: counselor, principal, or teacher.

C. Special Circumstances

Applicants with special talents or circumstances who do not meet requirements for guaranteed admission or for committee review may be considered. For further information contact the Office of Admissions (901) 454-2390.

3. AGE

An applicant must be at least 16 years of age.

Transfer Applicants

An applicant who has attended any accredited college or university must apply as a transfer student. The established deadlines for applying are August 1 for the fall semester; December 1 for the spring semester, and May 1 for the summer session. The applicant must request that a transcript from each college attended be sent directly to the Office of Admissions. Concealment of previous college attendance may be cause for rejection or cancellation of admission.

Admission will be granted only to an applicant who has honorable dismissal from an accredited institution and whose cumulative quality point average (QPA) meets the required minimum QPA established by the Tennessee State Board of Regents. See section 5, *Academic Regulations*, for the listing of minimum QPA required.

Transfer applicants who have been suspended from another college or university for the term immediately preceding their intended term of entry at Memphis State University will not be eligible for admission for at least one regular semester, not including the summer session.

Transfer applicants with less than 15 semester hours must meet the admission requirements for Freshmen Applicants. Those applicants not meeting the State Board of Regents standards must submit acceptable ACT or SAT scores or take an examination administered by Memphis State University and earn an acceptable score.

Transfer applicants who qualify and are approved for admission will be entered on *academic probation* if (1) not in good

standing at the last school attended or (2) the quality point average is below the minimum requirements listed in the retention scale in section 5, *Academic Regulations*.

A transfer applicant who is denied admission should contact the transfer affairs section of the Office of Admissions to discuss any alternatives to or the possibilities for attending Memphis State University in the future (901) 454-2111.

International Students

Memphis State University believes that the presence of a balanced representation of International students on campus will enrich the educational environment of all students. Based on this, the University is authorized under federal law to enroll non-immigrant, alien students on "F-1" student visas. Applicants must file complete credentials before May 1 for fall admission; September 15 for spring admission; or February 1 for summer admission. Complete credentials include all the documents listed below under requirements.

The application should be completed carefully and returned to the Office of Admissions, Memphis State University, Memphis, Tennessee, 38152, U.S.A. Applications and fees received after the stated deadlines will be returned.

A non-refundable application and processing fee of \$30.00 (thirty dollars) is required of every International Applicant, unless previously paid. A check or money order, made payable to Memphis State University, must be sent with the application form. Applications received without the fee will be returned.

International applicants should write to the Office of Admissions for information on application procedures, qualifications, and admission to the University. Since there is considerable variation among educational systems throughout the world, International applicants will be selected on a competitive basis; after meeting the minimum standards of admission using examination scores, grade point average, relevance of academic background to intended major field of study and recommendations from the World Survey of Education. The University often receives more applications than can be approved; therefore, admission cannot be granted to all applicants who meet only the minimum requirements.

Since the enrollment of International students is based on a global sampling and representation, priority will be given to applicants with exceptional credentials who will be attending a university in the United States for the first time.

All transcripts, test scores, and other credentials must be accompanied by an official English translation of these documents and must be on file in the Office of Admissions by the stated deadlines prior to the beginning of registration for the intended term of entry.

REQUIREMENTS

1. *Educational Background:* List on the form provided by the University every school you have

attended, beginning with the time you entered primary school, to the present, including each primary, secondary, and post secondary institution.

2. *Required Transcripts:* You must arrange for the Office of Admissions to receive official copies of your academic records from your attendance at secondary school, college, university, and professional school, if any, to be sent to Memphis State University. Transcripts must be sent directly from your high school or college to Memphis State University. An exception is made for those who hold the bachelor's degree or its equivalent in that they need not send their secondary school records. Records should list the subjects studied and the grade, mark, or other evidence that each individual work was completed to the satisfaction of the authority in charge. If it is impossible for the school to send us an official copy, certified copies by an official at the American Embassy or a known world organization may be acceptable. All records must be in English. Since certificates and records filed for examination are not ordinarily returned, you should send certified photostatic copies if the documents in question cannot be easily replaced.
3. *Required Test of All Applicants:* All applicants whose native language is not English must supply results of the Test of English as a Foreign Language (TOEFL) or equivalent. Test results may be obtained by writing, TOEFL, Educational Testing Service, Princeton, New Jersey, 08540, U.S.A. All test scores must be sent directly from the testing agency to Memphis State University.
4. *Freshman Test Required:* Applicants to the first-year undergraduate level must submit scores on the Scholastic Aptitude Test (SAT) or the American College Testing Program (ACT). These tests are available only in English. For information on the SAT write to College Entrance Examination Board, Box 555, Princeton, New Jersey, 08540, U.S.A. For information on the ACT write to American College Testing, P.O. Box 414, Iowa City, Iowa, 52243, U.S.A. All test scores must be sent directly from the testing agency to Memphis State University.
5. *Financial Statement:* U.S. visa regulations require that certification of admission be based on both academic acceptance and satisfactory evidence of adequate funds to meet the expenses involved in the student's program of study. An applicant on an "F-1" student visa must supply, on the form provided by the University, sufficient evidence of financial support for the applicant and all members of the family who will accompany the applicant to Memphis. This requires that the applicant certify that his/her intent is to attend the University full-time and that no employment will be required.
6. If transferring from an American college or university, a personnel evaluation form must be completed by the last school attended and returned to the Memphis State University Dean of Students Office. This form will be sent to you upon receipt of your application.
7. Send two recent passport size photos of yourself to the Office of Admissions, Memphis State University, Memphis, Tennessee 38152, U.S.A.
8. *Health Certificate Required:* Each International student, within 30 days from the first day of classes, must submit a certificate from a licensed U.S. physician or other qualified U.S. medical authority verifying freedom from tuberculosis. Failure to do so shall result in denial of enrollment. In the event that the student either has a history of tuberculosis or is in the process requiring medical treatment, continued enrollment will be conditioned upon the determination by a licensed U.S. physician that such enrollment does not present a risk to others and upon the student's compliance with any prescribed medical treatment program.
9. All International students must purchase health insurance before they are allowed to enroll.
10. *English Placement Examination:* All International applicants who are accepted must take an English placement examination administered by the English Department, prior to enrollment. Placement in an English class will be determined by the results of this examination. International students should arrange to be on campus approximately one week prior to registration for the proposed term of entry.

SPECIAL CATEGORY APPLICANTS

Applicants who wish to apply in one of the special categories listed below are encouraged to apply by the deadlines as stated for Regular Undergraduates. Applications will be accepted until the first day of registration for the term for which the student is applying. Special category students who have attended other colleges will not have their previous college work evaluated for transfer until such time as they have been approved for admission as regular undergraduates. An applicant who has applied as a regular undergraduate and failed to meet admission requirements must wait one regular semester or six months before applying for admission in any special category.

Special Undergraduate Applicants

An applicant who has earned a baccalaureate degree from an accredited institution who desires to take only a limited number of undergraduate courses and who is not presently working toward a degree at Memphis State University may be admitted as a Special Undergraduate Student by providing proof of the degree held and the date it was earned.

Unclassified Applicants

An applicant who wishes to enter the university and earn a limited amount of regular college credit may do so by applying for admission as an unclassified student and meeting one of the two conditions listed below:

1. A student who has not attended another college or university must provide proof of high school graduation or the equivalent, or be at least 18 years of age.
2. A student currently/Previously enrolled in an accredited college or university must submit evidence of eligibility to reenroll at that school. Clearance will be for one term only. Subsequent enrollment will require an application for readmission.

NOTE: Transient students should apply in the unclassified category.

Those who are admitted as unclassified students are assigned to the Academic Counseling Unit. Students in this category may not take more than 18 semester hours of work in a single term nor may they earn more than 24 semester hours total, unless they have enrolled as a regular student in another college since last attending Memphis State.

The unclassified student may, at any time within the stated deadlines, apply to the Office of Admissions for reclassification as a regular student, effective at the beginning of the next regular semester. Admission procedure and requirements are the same as those for regular undergraduate applicants, or by earning a cumulative QPA of 2.00 on 12 semester hours or more of non-activity courses at Memphis State. After the student is admitted as a regular undergraduate, any credit that he may have earned as an unclassified student will apply toward degree programs as outlined in the section of the *Bulletin* for the college from which a degree is sought.

Combination Student (MSU Senior Only)

An undergraduate student at Memphis State University who is enrolled for courses which complete his/her undergraduate degree may apply for admission to begin graduate study and, in special cases, be allowed to register for graduate courses not to exceed a total of 15 semester hours of combined course work. The student must meet all graduation requirements except for the number of hours and meet admission requirements as a graduate masters student.

Concurrent Enrollment

Outstanding high school students who have completed the junior year may be admitted and register for one college course per term of enrollment concurrently during their senior year provided the following criteria are met:

1. The applicant must be at least 16 years of age before the end of the calendar year in which the applicant desires to enroll.
2. A minimum high school cumulative grade point average of 3.00 on a 4.00 scale.
3. An ACT composite score of 20 or above.
4. A recommendation from the applicant's high school principal or guidance counselor.
5. Any other admission criteria established by the department which offers the course selected by the applicant.

Audit Students

Persons who are not enrolled for credit courses may register for audit courses with the approval of the Office of Admissions and the appropriate department chairman. These students must have the equivalent of high school graduation or be at least 18 years of age. Clearance will be for one term only. Subsequent enrollment will require an application for readmission. Persons suffering from a permanent disability which totally incapacitates such person from working at an occupation which brings him an income, and persons sixty (60) years of age or older, who are domiciled in Tennessee, may AUDIT courses at Memphis State without paying tuition charges, maintenance fees, student activity fees, or registration fees. Admission to AUDIT will be limited on an individual classroom basis according to space availability.

Former Students

Former students who wish to return to the University in the same category as when they previously attended or in any special category must file an application for readmission. This form should be secured, completed, and returned to the Records Office. If the student has enrolled at another college since last attending Memphis State University, he must have a transcript and a Personnel Evaluation Form forwarded to the Admissions Office. An applicant will receive favorable consideration only if he is eligible for readmission under all University regulations, including the quality point average for transfer students. (NOTE: International students who wish to apply for readmission to the University must meet the deadlines for new admission for International Students.)

MISCELLANEOUS INFORMATION

1. Advanced Standing Credit: Credit toward a degree will be accepted only from accredited collegiate level institutions for courses which are substantially equivalent to those offered at Memphis State University. After the student has been approved for admission as a regular undergraduate, the Transfer Affairs Section of the Office of Admissions will evaluate credits for University-wide use. The Office of the Dean in each college has the authority for determining the use of acceptable credit toward specific degree programs in that college.

In computing the scholarship ratio or quality point average of a student who has earned an associate degree from an institution with a grading practice which does not reflect failing grades, only those courses for which credit was granted will be used. A student who does not earn the associate degree prior to transfer or one who attends merely to take courses will have his quality point average computed using all courses attempted at that institution.

Credit earned from colleges not accredited by the Tennessee State Board of Education and/or the Southern Association of Colleges and Secondary Schools (or corresponding agencies for other states and regions of the United States) will not be accepted toward a degree or toward teacher certification.

In the case of students enrolled in the University College, credit may also be granted for experiential learning, that is, learning obtained from sources other than academic institutions.

2. Credit for Service in the Armed Forces: Veterans who have completed one year or more of continuous full-time active military service will be excused from taking the required physical education activity courses. In addition, they will be allowed six semester hours of health and physical education credit upon presentation of a copy of their report of

separation (DD Form 214) to the Admissions Office. The veteran may apply two additional semester hours credit in physical education activity courses (total applicable toward degrees not to exceed eight semester hours).

The Transfer Affairs Section of the Admissions Office should be consulted to determine whether additional credit may be allowed for courses offered through the Defense Activity for Non-Traditional Education Support (D.A.N.T.E.S.) or other service schools. The maximum amount of credit accepted for applicable D.A.N.T.E.S. courses and/or correspondence and extension courses is 33 semester hours, and 20 semester hours of lower division credit for selected service schools. (This restriction does not apply to credit accepted by the University College.) An official evaluation of service credit is not made until a student enrolls as a regular undergraduate student. Credit awarded for completion of selected service schools will be governed by the recommendations at the baccalaureate level as outlined in the current *Guide to the Evaluation of Educational Experience in the Armed Services*.

3. Noncollegiate Sponsored Instruction: Credit may be obtained for applicable courses completed through certain non-collegiate sponsored instruction as recommended in the current *A Guide to Educational Programs in Noncollegiate Organizations*. No more than 20 semester hours credit for service schools and/or noncollegiate sponsored programs will be allowed. The Transfer Affairs section of the Admissions Office should be contacted for further information.

4. Veterans: The Veterans Administration requires that each veteran declare a program of education, regardless of category, in order to receive an educational assistance allowance. It is therefore necessary for each veteran in a special category to declare a program of education whether he expects to complete that program at Memphis State University or elsewhere. Veterans in the special category of "Unclassified" at the freshman and sophomore levels may declare their program of education as "bachelor's degree and their major as undecided. Veterans in unclassified category at the junior or above level and all veterans in the special undergraduate category must declare a specific degree objective and a major whether the degree is to be earned at Memphis State University or elsewhere.

5. Residency Classification: All determinations concerning the classification of students as in-state or out-of-state for fee-paying and other purposes are made in the Office of Admissions and Records. The determinations are based on the guidelines of the State Board of Regents. A copy of the guidelines used in the classification of students for fee-paying purposes is found with the application in the back of this *Bulletin*. If, for any reason, there is a question about a student's residency classification for fee-paying purposes, it is his or her responsibility to check with the Admissions Advisor for Residency.

Fees and Charges



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EXPENSES AT UNIVERSITY

The matter of expenses while attending the University is of importance to every student. It is difficult, however, to give specific information about yearly expenditures; expenses vary according to the nature of the curriculum, the place of residence (whether in Tennessee or in another state or country), and the student's own habits and needs. In any student body there are so many different tastes, as well as such a wide range of financial resources, that each student

must determine his budget in keeping with his own needs and financial condition. It is possible to live simply, and to participate moderately in the life of the student community, on a modest budget. The best help the University authorities can offer the student in planning his budget is to inform him of certain definite expense items and to acquaint him with others for which he will in all probability have to provide.

The information in this section concerning tuition, fees, deposits, etc., is applicable only to students enrolled in the undergraduate colleges and departments of the University. Similar information for students in The Graduate School and The School of Law is available in the bulletins of those schools.

The listing of any fee or incidental charge in this catalog does not constitute a contract between the University and the student. **Because of rapidly changing conditions it may become necessary to alter a fee structure before the next edition of the Bulletin is published.** As a condition of registration each student will pay the fees in effect at the time he registers.

APPLICATION FEE: Each student submitting an application for admission to the University must pay, at the time he submits his first application, a one-time, non-refundable fee of \$5.00.

PAYMENT OF FEES AND DEBTS: All fees are payable at the time of registration; the University has no deferred fee payment arrangements. Fees may be paid through the use of Visa or Master Card cards if the card is issued to the student, student's spouse, or student's parents. Former students with outstanding financial obligations to the University cannot be re-enrolled until the obligations are paid.

MAINTENANCE FEE: All students, whether in-state or out-of-state, pay a maintenance fee. Undergraduate fees are \$35.00 per semester hour, not to exceed a maximum of \$416.00. Students paying the fee for six or more hours are entitled to admission to home athletic events and certain health services, concerts, plays, social and other student-sponsored activities, and subscription to the student newspaper, *The Helmsman*.

Fees payable are based on the student level. Undergraduate students pay undergraduate rates for graduate courses.

The summer session consists of two separate terms of approximately six weeks each, plus an extended term for specified courses. Fees for the summer session are determined solely on a semester hour basis. The semester hour charge is \$35.00 for maintenance fees and an additional \$76.00 for out-of-state tuition.

Fees for audits will be assessed on the same basis as fees for credit courses. Courses offered between terms, for concentrated periods during a term, or at specific locations, may be subject to fees on a per-hour basis only.

The University will usually collect the amount of fees due based on a manual calculation at the time of registration; amounts collected are applied to total fees due, in accordance with fee rates in effect. After all enrollments are complete, a computerized calculation of fees due will be made based on actual course enrollments and residency classification. Any over-collections will be refunded, and students will be billed for any under-collections.

TUITION: Students classified as out-of-state are charged an additional \$879.00 per semester for full-time students or \$76.00 per semester hour for part-time students. Thus, an out-of-state full-time student is charged \$1295.00. An out-of-state student who is enrolled part-time is charged \$111.00 per semester hour.

The Office of Admissions and Records is charged with the responsibility of assigning a residency classification to each student using guidelines provided by the Board of Regents. The student may appeal the decision to the Committee on Residency. Residency guidelines of the Board of Regents and information on appeals procedures are available in the Office of Admissions and Records. A copy of the guidelines for residency classification is also found with the application in the back of this Bulletin.

TOTALLY DISABLED PERSONS AND PERSONS OVER 60 YEARS OF AGE: Persons suffering from a permanent disability which totally incapacitates such persons from working at an occupation which brings them an income, and persons who will become 60 years of age or older during the academic semester in which such persons begin classes, and who are domiciled in Tennessee, may AUDIT courses at Memphis State University without paying tuition charges, maintenance fees, student activity fees, or registration fees. Admission to AUDIT will be limited on an individual classroom basis according to space availability.

Any person who is totally disabled, and persons who will become 65 years of age or older during the academic semester in which they begin classes, and who are domiciled in Tennessee, may enroll for courses for credit at the cost of \$17.50 per undergraduate semester hour, or \$24.00 per graduate semester hour, not to exceed \$75.00 per semester. The University Health Services shall examine certification of permanent disability (not the applicant) and determine the eligibility of the applicant under this legislation.

Inquiries concerning these programs may be addressed to the Records Office, Administration Building, Room 115, or telephone 454-2671.

UNIVERSITY COLLEGE FEES: In addition to their \$5.00 application fee, students who apply to the University College must pay a screening fee of \$15.00, which is non-refundable. If accepted into the University College, the student must pay a non-refundable contract-advising fee of \$25.00.

COMMERCIAL MUSIC FEES: Students who wish to apply for credit for experien-

tial learning in Commercial Music may obtain guidelines for this procedure from the Dean of the College of Communication and Fine Arts. A non-refundable \$25.00 contract advising fee will be charged for the assessment of the portfolio. See "Experiential Learning Credit Fees" for related fee information.

EXPERIENTIAL LEARNING CREDIT FEES: Students who wish to apply for credit for experiential learning will pay \$15.00 per credit hour granted after evaluation of their learning and assignment of credit. For those students who are enrolled under a group contract, a maximum fee of \$90.00 will be assessed for credits assigned under the terms of the contract.

Currently the University College, the College of Communication and Fine Arts, and the Herff College of Engineering (Trade and Industrial Vocational Technical Education majors) award credit for experiential learning. See "University College Fees" and "Commercial Music Fees" for related fee information.

COURSES IN APPLIED MUSIC: The fee for applied music shall be \$30.00 per semester for each one-half hour lesson.

STUDENT ACTIVITY FEE: All students enrolled for one credit hour or more will pay a \$1.00 student activity fee. The amount is \$1.00 regardless of the total number of hours for which the student is enrolled. There is no activity fee during the summer terms.

REFUND OF FEES (MAINTENANCE FEES, OUT-OF-STATE TUITION, MUSIC FEES): The following refund percentages apply to students who withdraw from the University or who drop to an hourly load below full-time:

- 100% Refund:** A full (100%) refund of fees will be made for courses cancelled by the University. Fees paid for second summer term courses dropped on or before the course adjustment day are also refunded in full.
- 75% Refund:** The University provides a 75% refund of enrollment fees beginning at the moment of registration and extending for a period of time as noted in the term calendar for the semester.
- 25% Refund:** A 25% refund of enrollment fees is provided after the expiration of the 75% refund period and concludes as noted in the term calendar for each semester.
- 100% refund** in case of death.

If a student withdraws during the 75% period, all of the student activity fee is refundable. There is no refund of the student activity fee after this period.

The University refund policy is based entirely upon the official date of the withdrawal or change of course which would result in a refund. Refunds beyond the specified date or percentage cannot be made for reasons such as employment conflicts, health or medical problems, moving out of town, or other reasons which are beyond the University's con-

trol or responsibility.

Note: The dates for these refund periods are found in the term calendar in the *Schedule of Classes*. The refund period ends earlier than the final deadline for dropping a course or withdrawal. Refunds will be processed beginning approximately two and one-half weeks after classes begin and usually should be completed five weeks after classes begin.

RESIDENCE HALLS: Charges for rooms in University residence halls are indicated below. For information concerning application for rooms, see section 4, *Student Life and Financial Aid*. There is a request form for information with the application in the back of this *Bulletin*.

APPLICATION PROCEDURES: Applications for residence hall space may be obtained from the Office of Residence Life, M.S.U., Memphis, Tennessee, 38152. Because spaces are allocated by date of receipt, completed applications accompanied by the required \$100 application/security deposit should be returned to the Office of Residence Life as soon as possible. Checks or money orders should be made payable to Memphis State University; please do not send cash.

Receipt by the Office of Residence Life of the Housing application and \$100 check or money order, however, does not guarantee admission to the University or to a residence hall. THE DIRECTOR OF RESIDENCE LIFE RESERVES THE RIGHT TO REFUSE ANY HOUSING APPLICATION, TO CHANGE OR CANCEL ANY ASSIGNMENT, OR TO TERMINATE A RESIDENT'S OCCUPANCY, FOR JUSTIFIABLE CAUSE.

CONTRACT PERIOD AND CONDITIONS: Fall assignment/contracts are for the full academic year (Fall and Spring semesters). Fall residents wishing to petition for release from their contract for the Spring semester must do so in writing by the second Friday in November. Residents who cancel after this date, but prior to claiming their key for the Spring semester, will forfeit \$50 of their \$100 application/security deposit. Residents who fail to cancel by 4:30 P.M. on the second day of undergraduate registration will forfeit the entire \$100 deposit. The application/security deposit, once submitted with the application, covers your initial term of occupancy and all subsequent terms of occupancy and continues until such time as it is cancelled in writing. There will be no penalty if written cancellation is received prior to the published deadline for any specific contract period.

CANCELLATION POLICY: Full deposit and pre-payment of rent will be refunded if: (1) the institution is notified a minimum of 30 calendar days prior to the first official day of registration for the first semester in which the contract is in force, (2) the student is prevented from entering the University because of personal medical reasons confirmed in writing by a licensed physician, (3) residence hall space is not available, or (4) the student is denied admittance or re-admittance to the University. Full refund will

be made in the case of death. NO REFUNDS WILL BE MADE FOR OTHER THAN THE ABOVE CONDITIONS.

New applicants who fail to cancel by the deadline referred to in (1) above but before 4:30 P.M. on the second day of undergraduate registration (NO SHOW DATE) will forfeit \$50 of their \$100 deposit, but will not be subject to any other penalties. New applicants who fail to cancel by 4:30 P.M. on the second day of undergraduate registration will forfeit their entire \$100 deposit. (This is applicable to both the Fall and Spring semesters.)

REFUND OF RESIDENCE HALL RENT: Refunds of residence hall rent after registration will be pro-rated on a weekly calendar basis when the student is forced to withdraw from the residence halls (1) because of personal medical reasons confirmed in writing by a licensed physician or (2) at the request of the institution for other than disciplinary reasons. Full refund will be made in the case of death.

For reasons other than the above stated, the following procedure shall apply: 75% of fees will be refunded for withdrawal from the residence halls for a period of 14 calendar days beginning with and inclusive of the first official day of classes or within an equivalent period for a short-term course; 25% of fees will be refunded following expiration of the 75% period, for a period of time extending 25% of the time covered by the term. NO REFUNDS WILL BE MADE FOR OTHER THAN THE ABOVE CONDITIONS.

Dormitory	Type Room	Semester Rate***
Browning	Double	\$335
	Single	460
Hayden	Double	385
	Single	500
McCord	Double	375
	Single	500
Mynders	Double*	400
	Small	
	Single*	520
	Midsize	
	Single*	550
	Large	
	Single*	575
	Large	
	Single**	610
Rawls	Double	430
	Single	570
Richardson	Double*	475
Towers	Single*	620
Robison	Double	430
	Single	570
Smith	Double	375
	Single	500
West	Double	375
	Single	500

*Sem-Private Bath

**Private Bath

***Because of rapidly changing conditions it may become necessary to alter these fees.

MARRIED HOUSING: The University has 126 apartments for married students located on South Campus, approximately one mile from the central part of the campus. There are 70 two-bedroom and 56 one-bedroom apartments. All apartments are furnished with electric stove, refrigerator, carpeting, and garbage disposals. The monthly rental rates are as follows: one-bedroom apartment, \$175;

two-bedroom apartment, \$200. Electrical utilities are paid by the tenant.

Application forms may be obtained from the Office of Residence Life in Room 108, Jones Hall, Main Campus. A \$50 deposit is required when the application is submitted.

MEALS: The University cafeterias, student centers and vending areas, open to all students, provide wholesome food at reasonable prices. Cost of meals per student is estimated at \$6.00 to \$7.25 per day.

AIR FORCE ROTC DEPOSIT: A uniform deposit of \$10.00 is required of each student who enrolls in the Air Force ROTC program. The uniform deposit, less charges for uniform loss or damage, will be refunded at the end of the academic year or at the beginning of a semester in which the student is not enrolled in the ROTC program.

LABORATORY DEPOSITS: Certain courses in chemistry require breakage deposits from \$10.00 to \$20.00 per semester, depending upon the course. Any unused portion of these deposits will be refunded.

PHYSICAL EDUCATION LOCKER AND TOWEL FEE: Students enrolled in physical education courses must pay a fee of \$4.00 for the locker and towel issued them. Students must provide their own lock.

LATE REGISTRATION: Students who do not complete registration (including the payment of fees) during the official registration period will be charged \$10.00 for any late registration following the official registration period.

ADDING AND DROPPING COURSES: A fee of \$5.00 will be charged for each change of course form processed, regardless of the number of course or section changes included on the form.

TRANSCRIPTS: There is no fee for transcripts. However, the student will be charged \$1.00 for each official transcript over the maximum of five (5) per request. Transcripts are issued only at the request of the student in person or by letter. No transcript will be provided for a student who has any unfulfilled obligations to the University.

DIPLOMA FEE: Each candidate for a degree from Memphis State University pays a \$25.00 fee to cover cost of the diploma, rental of cap and gown, and incidentals connected with the commencement exercises. This fee must be paid thirty days before graduation.

CREDIT BY EXAMINATION OR PLACEMENT EXAMINATION: The fee for taking an examination for credit is \$15.00 minimum and an additional \$5.00 for each credit hour over three; this fee must be paid prior to the examination. The same fee must be paid when an application for credit is made under the Credit by Placement Examination policy.

AUTOMOBILE REGISTRATION: Each person who expects to operate and park any motor vehicle on the campus must

pay \$5.00 for an official permit, valid from September through August, and register the vehicle in the Security Office (Room 151, Administration Building). A reduced fee of \$4.00 is charged for vehicle registrations after January 1, and \$2.00 after May 1. Residence hall occupants should ask for a special resident decal when registering their automobiles.

IDENTIFICATION CARDS: The University issues to each student an identification card, which bears his photograph, social security number, and certification that he is enrolled as a student in the University. The card is required for registration, the borrowing of library books, and other purposes. The card remains the property of Memphis State University and will be surrendered upon request of a University official. A student will be charged \$10.00 to replace a card that has been damaged, stolen, or lost. A student will be charged \$2.00 to make any change in data on his card.

Part-time students who are enrolled for at least six semester hours of credit courses will be given full-time I.D. card validation (Also, see section 4, *Student Life and Financial Aid*).

The I.D. certification is renewed during registration of each semester the student is enrolled. (The summer sessions are considered as a semester.)

RETURNED CHECKS: It is expected that a check given the University, for any reason, will clear the bank on which it is drawn. A \$10.00 service charge will be assessed for each returned check whether given in payment of any fee or cashed by the University for the convenience of the student. Check cashing privileges will be revoked for any student who has had checks returned by his bank more than once within a twelve-month period.

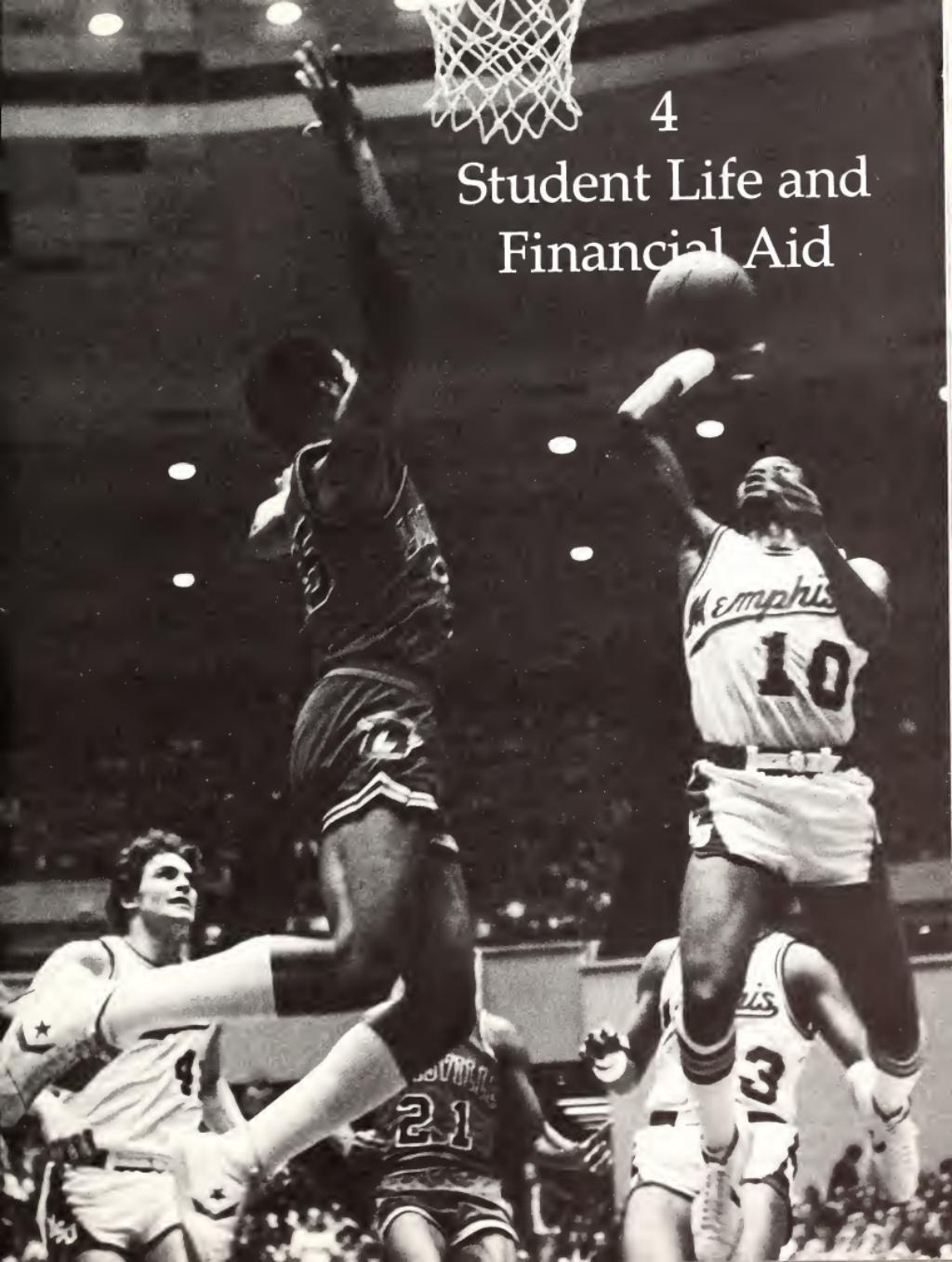
MUSIC LOCKER DEPOSIT: Music students are required to have a locker for storage of University-owned musical instruments or equipment. Personal instruments may also be stored in lockers. A deposit of \$3.00 for one semester or \$4.00 for two semesters is required on each locker issued. This deposit, less a service charge of \$1.50 per semester, will be refunded upon return of the lock. Students will be expected to pay for any damages.

APPEAL PROCEDURES FOR FEES AND REFUNDS: A student may appeal the assessment, application, calculation or interpretation of any University fee, charge, deposit, or refund, or any University action connected with fees and charges. Questions should generally be discussed with personnel in the Bursar's Office. If a student is not satisfied with the resolution made by the Bursar's Office, a written appeal, on forms available in the Bursar's Office, can be made to the Director of Finance; his determination may be appealed to the Vice President for Business and Finance; and his determination may be appealed to the President of the University. Traffic fines are subject to a separate appeal procedure.

SUMMARY OF EXPENSES

	Per Hour (Summer and Part-Time)	Fall and Spring Semester Per Semester (Full Time)
Undergraduate:		
In-State Maintenance	\$35.00	\$416.00
Out-of-State Tuition	76.00	879.00
Out-of-State Total	111.00	1295.00
Student Housing: (See listing earlier in this section)		
Applied Music Courses: (See information earlier in this section)		
Incidental Charges:		
Admission Fee		\$1.00
Adding or dropping courses, per form		5.00
Application for admission, first application		5.00
Automobile Registration, per automobile		5.00
Diploma, payable once		25.00
Late Registration after official Registration period		
Transcripts, per copy after first from the University		1.00
School and College Ability Test		5.00
Residual American College Test		8.00
Orientation Services (New Student Orientation)		10.00
P.E. locker and towel, per semester		4.00
Deposits:		
Air Force ROTC Uniform (refundable less charges for loss or damage)		\$10.00
Dormitory Rooms (refundable less charges, upon termination of occupancy)		100.00
Laboratory breakage (refundable less charges)		
Music locker deposit, per semester, per year		Variable

Additional Charges
The University reserves the right to increase the charges listed herein or to add new ones whenever such increases or additions are found to be necessary.



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Student Life and Financial Aid

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STUDENT DEVELOPMENT

Student Development is an administrative area within the Division of Student Educational Services. It is comprised of four departments: (1) Center for Student Development, (2) Student Aid, (3) University Placement, and (4) Health Services. Specialized services are provided by each department to facilitate problem resolution, personal growth, and self-actualization. Students may receive assistance on a walk-in basis or by appointment. Further information may be obtained by contacting the Associate Dean for Student Development (454-2291).

The Center For Student Development

Scates Hall, Room 111

The Center for Student Development is a comprehensive counseling and assistance facility providing personal/psychological, academic, and career resources for students to draw upon as they confront the developmental tasks concomitant with their educational experience. By emphasizing developmentally oriented activities, the center strives for maximum contact with the university community. The primary activities of the center include the following:

individual and group counseling
personal and educational enrichment programming
consultation and training for individuals and campus organizations
tutorial services

The Center for Student Development encompasses a wide variety of free counseling and helping activities through its various components: Academic Counseling, Career Counseling, Personal Counseling, the Testing Center, and the Educational Support Program.

The Center for Student Development gives each student the opportunity to deal with any matters of concern. Because the Center provides a staff of diversified professionals in a centralized location, students and referral agents alike are assured of a complete and comprehensive package to suit their particular needs. The center is viewed as a useful resource for any individual who has a concern (no matter how small) or a crisis (no matter how large). For the opportunity for assistance in any of the activities named below, the student should contact the office of the Center for Student Development (454-2067).

PERSONAL/PSYCHOLOGICAL COUNSELING

Scates Hall, Room 111

The personal/psychological counseling component provides students with the opportunity to discuss and explore, in confidence, any concerns and feelings that are of importance to them. Staffed

by professional psychologists and counselors, the personal counseling unit is committed to helping students grow in self-understanding so that they may use their assets effectively and move toward meaningful future goals. Problems in interpersonal relationships, feelings of loneliness or inadequacy, family or marriage difficulties, depression, lack of confidence, the inability to concentrate on study, or simply "feeling the need to talk things out" are all examples of concerns which are dealt with through personal counseling. The staff is professionally trained and experienced in working with a wide variety of student concerns through individual and group counseling, testing, programs and workshops, and referral to additional service centers on and off campus. (454-2067)

ACADEMIC COUNSELING

Scates Hall, Room 107 (454-2062)

All freshmen, transfer, and readmitted students without an academic major are assigned to an academic counselor. The purpose is to provide academic counseling which will prepare students for enrollment in one of the degree-granting colleges once they have chosen an academic major. The counselor is available to discuss with the student the many academic programs offered by Memphis State University and to acquaint him with the requirements of the various programs.

The academic counseling unit of the Center for Student Development provides an atmosphere in which a student can freely explore educational and developmental goals with the assistance of a full-time counselor who can provide information and referral for faculty assistance, career counseling, vocational testing, and help with any personal problems related to academic success and adjustment to the University environment.

CAREER COUNSELING

Scates Hall, Room 104 (454-2228)

Career counseling at the Center for Student Development affords students an opportunity to explore career options, obtain information relating academic majors to career choices, evaluate employment outlook information, match education to careers, reinforce decision-making skills, and develop realistic career goals. The counselors are trained and experienced in working with students who are uncertain or confused about selecting among the many career options available to them. Through testing, counseling, and confronting the issues, each person is given the opportunity to make a well-considered choice. For persons ready to face the job market, the career counseling unit provides related workshops and assistance. Special career-related programs are available to individuals and interest groups.

THE TESTING CENTER

Scates Hall, Room 103 (454-2428)

The testing center provides testing services for university and professional school admissions purposes as well as for

licensure and certification in a variety of professional areas. A wide variety of tests including the ACT Test, Miller Analogies Test, the Graduate Record Exam, the Law School Admissions Test, The Senior level Achievement tests, the Medical College Admissions Test, and the Graduate School Foreign Language Test and others are administered under the auspices of the testing center.

EDUCATIONAL SUPPORT PROGRAM

Winfield Dunn Building, Room 143
(454-2704)

The Educational Support Program provides assistance to students in developing and improving the skills necessary for a successful academic experience. In addition to tutorial programs in reading, English composition, mathematics, foreign language, and learning skills, counseling referrals are also available for persons wishing to discuss educational and personal concerns. Individual and group consultation as well as audio-visual and programmed instruction are available on a walk-in, voluntary basis. Moreover, a roster of private tutors for specific courses is maintained. Periodic workshops in academic survival skills are presented in a variety of settings.

University Health Center

LOCATION AND HOURS

The University maintains on the main campus a health center which is located at the corner of University and Desoto Avenues. The University Health Center is open Monday through Friday, 8:00 a.m. to 4:30 p.m. Additional information about the center services may be obtained by calling 454-2287.

ELIGIBILITY FOR CARE

Students will be given priority for services; however, all medical services are available to faculty and staff members. Except in cases of emergency, each visit to the health center requires that the individual present his validated identification card before treatment.

Permission for Treatment: Those patients under 18 years of age must have a permission for treatment form signed by their parent or legal guardian. Patients under 18 years of age who do not have the signed treatment forms cannot be treated at the University Health Center except in cases of emergency. Patients who are 18 years of age or older may sign the permission forms themselves. The permission for treatment forms may be obtained at the center.

Medical Record: Prior to treatment in the Health Center, the patient is required to complete a short personal medical record. A physician's examination is not necessary. All medical records of patients are privileged communication, and information is not released to any

source without the written, valid consent of the patient, except when required by law and/or court order.

SERVICES

The University Health Center is staffed with a physician, nurse practitioner, registered nurses, medical and x-ray technologist, and various administrative support personnel. The Center's major emphasis is on the diagnosis and treatment of short-term, acute, episodic, medical illnesses on an outpatient basis. Specialty clinics are provided in nutrition and dermatology during the Fall and Spring semesters, by appointment only. A Family Planning Clinic is provided by the Memphis and Shelby County Public Health Department in the Health Center on Wednesday and Thursday afternoons all year. The Family Planning Clinic provides birth control information and examinations. If the patient cannot keep an appointment for one of the specialty clinics, he should call 454-2287 to cancel so that the time may be given to another patient.

Physicals: No routine physicals are performed by the University Health Center.

Immunizations: Allergens and other series preparations will be administered by the Center personnel when requested by the patient's private physician.

Equipment Loan: The Center will loan crutches and wheel chairs to eligible patients on a short-term basis. The patient will assume financial responsibility in the event of damage or loss of the loaned equipment.

Verification of Totally Disabled Persons:

The Center shall examine certification of permanent disability (*not the applicant*) and determine the eligibility of the applicant under the applicable legislation to audit credit courses offered without charge on space available basis. This certification of permanent disability shall be a current letter from the individual's attending physician which states that the individual is unable to engage in income producing activities, or Social Security Disability Form SSA-2458 which specifies the nature of the disability and states that the student is receiving payment for total disability; or a medicare card if the individual is under 65 years of age. The certification or copies will remain in the Center. Eligibility for this program will be certified to the Office of Admissions and Records. These same guidelines apply to determine eligibility of totally disabled students to enroll in the "Disabled or 65+" program for credit at a reduced fee.

Handicapped Parking Spaces: Upon receipt of a current letter from the attending physician or the Director of Handicapped Student Services giving the name of the individual, the diagnosis, indication that the individual's condition will be aggravated by parking several blocks from the classroom and the length of time the condition will probably exist, the Center will recommend that a Handicapped Parking permit be issued. Parking permits will be issued by Security, 151 Administration Building.

Excuses: Excuses for class absence are the prerogative of the faculty member involved; therefore excuses for class absence are not given out by the Health Center personnel. A form stating the student's name, date, and time of the visit to the University Health Center will be provided upon request. No information will be released without prior written consent from the patient.

Add/Drop/Withdrawal: In order for a patient to receive a recommendation for a medical drop from the University Health Center, the patient's current attending physician must certify in writing that the patient is unable to complete the semester and that so doing would be injurious to his health.

EMERGENCIES

In the event of injury or sudden illness occurring in the classroom or on the campus, the senior faculty or staff member present will evaluate the situation to the best of his capability, call the University Health Center (extension 2287), and provide the nurse or physician with the following information:

1. Name of person calling, location and phone number.
2. Name of patient, nature of illness or injury, and the patient's Social Security number.
3. Location of the patient.

Upon receipt of such a call, the Health Center nurse or staff physician will evaluate the situation and make appropriate disposition. If removal of the patient to the University Health Center is considered possibly injurious to the patient, on the scene evaluation will be made. In the event that removal of the patient to the University Health Center is considered safe and advisable, the Health Center staff will notify the Security Office whose personnel will move the patient to the University Health Center with due care and dispatch.

After Hour Emergencies: Emergency medical conditions which occur at times other than when the University Health Center is open will be coordinated by the professional University Security Service, extension 2212. The patient may be transferred to a local medical facility if conditions warrant, and the patient will be responsible for the cost of transfer and care at that facility.

CHARGES

Routine diagnosis and treatment, x-rays, most laboratory analysis, and specialized clinics are free of charge. The Family Planning unit will charge patients on a sliding scale basis. When more in-depth treatment is needed and the patient is referred off-campus, the patient is responsible for all charges incurred for these services. There are no charges at the Health Center for laboratory services except for pregnancy tests, pap smears, and certain highly specialized tests which have to be sent to an outside pathological laboratory. The

patient will be asked to pay the Health Center directly prior to the performance of the pregnancy test, pap smear, or specialized tests. The charges for these tests will be at cost.

HEALTH INSURANCE

Since major medical care is occasionally needed on an emergency basis or short notice, students are strongly encouraged to make arrangements to obtain health and accident insurance coverage. In the event that this insurance is desired, the University has authorized and approved a private insurance company to provide coverage, which the student pays for directly. Details pertaining to this insurance is available at the time of registering and in the Health Center. Since no fees are charged for the majority of services provided by the University Health Center, insurance papers will not be completed by the Health Center personnel (i.e. Workman's Compensation, etc.).

Student Aid Office

The University Student Financial Aid Office, provides financial assistance for students in the form of scholarships and grants, loans and student employment. This office counsels with students about college expenses and financial aid opportunities.

In addition to the University financial aid application, all applicants for financial assistance must submit the American College Testing Program Family Financial Statement. All undergraduate students must apply for the PELL Grant Program. All forms may be obtained through the Student Aid Office upon request. The ACT Family Financial Statement is also available in most high school guidance offices.

The preferred application deadline for fall applications is April 1. For the Spring semester the preferred application date is November 1. Applications are acknowledged as they are received, and award notices are mailed around August 1. All awards are made on an academic year basis. All students must submit a new application each year.

All inquiries concerning financial aid should be addressed to the Director of Student Aid unless some other procedure is specifically indicated in the following description of scholarships and loans. A detailed listing of all policies, rules, regulations, selection process, and other information pertaining to governance of student aid programs is available in the Student Aid Office. A request form for additional information is found in the back of the *Bulletin* with the application blank.

SCHOLARSHIPS

The University awards several hundred scholarships each year in varying amounts from \$50 to \$2,000. Most scholarships awarded cover the amount of registration fees, but the stipend is determined by the student's need for financial assistance. Scholastic achievement, personal and leadership qualities and need

are the factors utilized in evaluating applicants and determining the value of the scholarship offered.

Scholarships are awarded for the academic year and are not available for summer school. Freshmen applying for scholarships must rank in the top twenty-five percent of their high school graduating classes. Currently enrolled students must have at least a 2.5 overall grade point average. Scholarships are awarded on an academic year basis. Each student wishing scholarship consideration must submit an application each academic year. Information on special scholarships may be obtained from the Student Aid Office.

State Board of Regents Scholarship

The Board of Regents Scholarship is for Tennessee residents with a 2.8 G.P.A. or higher. Freshmen applying for the scholarship must rank in the upper quartile of their graduating class. The scholarship covers mandatory fees, and there is a service or work requirement for recipients.

Alumni Valedictorian Scholarship

The Memphis State University Alumni Association provides a Valedictorian Scholarship for the top scholar from each of Tennessee's accredited or state approved high schools and the State's ten public community colleges. The qualifications for this program are that the recipients must rank number one in their class and meet the admission requirements of the University. The award, in an amount equal to in-state registration fees, is for one year and is based solely on academic standing.

For applications and further information on this program, qualified students should contact the Student Aid Office.

Cecil C. Humphreys Presidential Scholars Program

Twelve \$8,000 four-year scholarships are awarded annually to entering freshmen of the highest academic attainment without regard to financial need. Scholarships are selected on the basis of the following criteria:

1. An ACT score of 28 or higher, or the corresponding SAT score.
2. High school transcript
3. Excellence of performance in an area of interest.
4. Quantity and quality of extra curricular and extra-mural activities.
5. Evidence of sound character, work habits, and attitude.

The scholarship program is funded by contributions to the Memphis State University Annual Fund from Alumni and other friends and by Athletic Department revenues. The scholarship program is named for Dr. Cecil C. Humphreys, President Emeritus of Memphis State University.

General Scholarships

THE GENERAL UNIVERSITY SCHOLARSHIP FUND provides scholarships varying in amount and duration to outstanding high school students.

THE MEMPHIS STATE UNIVERSITY ANNUAL FUND each year provides a sum of money to be awarded to students with outstanding academic records. These scholarships vary in amounts from \$400 to \$700 with the actual stipend determined by the student's need for assistance and academic potential. The fund is supported by gifts from alumni and friends of the University.

THE UNIVERSITY WIVES' CLUB JUNIOR SCHOLARSHIP AWARD is annually presented to the woman member of the junior class who has attained the highest scholastic average.

THE C. M. GOOCH SCHOLARSHIP FUND was established from proceeds of the estate of the late Mr. C.M. Gooch. Its purpose is to provide financial aid to a student who would otherwise would not be able to attend college. The maximum a student may expect to receive in a calendar year is \$300. The student must be in good academic standing and must show need for assistance. Application is made through application procedures of the Student Aid Office.

THE TAYLOR AND MARY RICHARDSON SCHOLARSHIP is awarded to a graduate of Lake County High School in Tiptonville, Tennessee. Applicants must apply and be accepted as freshmen, demonstrate academic ability and financial need.

THE UNIVERSITY PROGRAMS FASHION BOARD SCHOLARSHIP is based on application from members of the Fashion Board who exhibit academic excellence and have performed well as members of the Board.

THE COMMUNITY COLLEGE PRESIDENTIAL SCHOLARSHIP is a tuition scholarship awarded to a student of one of Tennessee's ten community colleges.

THE WALTER JONES SCHOLARSHIP was established to honor the former President of Memphis State University, Dr. Billy J. Jones. The \$750 scholarship is awarded to an undergraduate student studying marketing, commercial arts, any discipline within the College of Communication and Fine Arts, and/or a course in the International Business program or area relating to the Division of University Community Relations.

THE EDWARD A. HAMILTON FIRE FIGHTER SCHOLARSHIP is awarded to a fire fighter or a dependent of a fire fighter who is in need of financial assistance.

THE ALUMNI FRESHMEN SCHOLARSHIP covers registration fees for beginning freshmen who reside in a county which has been awarded an alumni funds scholarship based on participation in the MSU Annual Fund Program for the preceding year.

THE STUDENT GOVERNMENT ASSOCIATION SCHOLARSHIP is an in-state tuition award given to students who are planning to attend Memphis State University by the Student Government Association. The award is at least 2/3 of the ACT or an equivalent SAT score. Transfers and currently enrolled students must maintain a 2.75 cumulative grade point average. The scholarship is non-renewable.

THE MSU UNIVERSITY WIVES SCHOLARSHIP is awarded to a member of the University Wives, a 3.0 minimum GPA, and demonstrates financial need.

THE JAMES E. MCGEEHE MORTGAGE COMPANY SCHOLARSHIP was established in 1966 by the McGeehee Mortgage Company with a \$10,000 donation. Interest from the investment of these funds is used to award an annual scholarship and outstanding achievement.

THE MEMPHIS STATE UNIVERSITY FACULTY-STAFF SCHOLARSHIP was established in 1971 as an endowment program. Several scholarships are awarded annually on the basis of financial need and scholastic ability.

THE BILLY J. MURPHY SCHOLARSHIP was established in 1974 in honor of Mr. Billy J. Murphy, Director of Bands for his long service to the school. The \$725 scholarship award is made to a Memphis area student who has demonstrated financial need and shows scholastic ability.

THE HATTIE G. WATKINS SCHOLARSHIP annually provides five scholarships at \$500 each to students on the basis of financial need and scholastic ability. These scholarships are awarded to students who are employed part-time to help finance educational expense.

THE HORACE H. WILLIS MEMORIAL SCHOLARSHIP of \$250 is awarded from time to time to an incoming freshman on the basis of need for financial assistance and evidence of academic promise.

THE ABE WALDAUER MEMORIAL SCHOLARSHIP provides one scholarship to a Shelby county resident, who demonstrates exceptional academic achievement and financial need.

THE LESLIE CRUBER SCHOLARSHIP is awarded annually to an incoming Tennessee high school graduate who has shown academic ability of at least a 3.0 GPA on a 4.0 scale and, most importantly, financial need.

THE JAMES McCLENDON HIGHLAND 100 SCHOLARSHIP is awarded to a Memphis area high school graduate who has demonstrated financial need and academic potential.

THE MEMPHIS HIGH SCHOOL ALUMNI SCHOLARSHIP is for graduates of Memphis high schools only. The recipient must demonstrate academic ability.

College of Arts and Sciences

THE BELLE McGWILLIAMS SCHOLARSHIP recipients must be enrolled in the College of Arts and Sciences demonstrating an above average intellectual ability, leadership, and extracurricular activities, and outstanding academic achievement.

The recipient must be a sophomore or more or with at least a 3.0 GPA.

THE CARROLL BOWMAN SCHOLARSHIP is awarded to a Philosophy major with demonstrated financial need and academic promise.

THE FANNY BOOK AND SCHOLARSHIP is awarded to a student in Botany or Biology with minimum of 2.5 GPA.

THE CHILD WELFARE SCHOLARSHIP is maintained by the Opportunity Foundation Corporation and the State of Tennessee. Several scholarships in the amount of \$500 each

awarded annually to full-time juniors or seniors majoring in social work. Recipients are selected jointly by the faculty in the Division of Social Work and the Student Aid Office. Awards are based on scholastic standing and financial need.

THE OPPORTUNITY FOUNDATION PAUL SCHWARTZ SCHOLARSHIP covers maintenance fees for social work majors who are seniors with a 2.5 minimum GPA.

The Fogelman College of Business and Economics

THE MEMPHIS STATE UNIVERSITY BETA ALPHA PSI ALUMNI SCHOLARSHIP is awarded to a accounting major who has achieved a junior standing and a minimum of 3.0 cumulative GPA.

THE AMERICAN SOCIETY OF WOMEN ACCOUNTANTS-MEMPHIS CHAPTER annually awards a one year, full-in-state tuition scholarship based on scholarship and need to a female senior majoring in accounting.

THE TENNESSEES SOCIETY OF CERTIFIED PUBLIC ACCOUNTANTS SCHOLARSHIP-MEMPHIS CHAPTER presents one or more scholarships to accounting majors based on good scholarship, co-curricular activities, character and financial need.

THE INSURANCE WOMEN OF MEMPHIS SCHOLARSHIP is awarded to a female senior majoring in at least sophomore standing. Applications can be obtained through the Finance, Insurance and Real Estate Department.

THE MEMPHIS CHAPTER OF THE SOCIETY OF CHARTERED PROPERTY CASUALTY UNDERWRITERS annually awards a check or a plaque to the outstanding student in the field of insurance.

NATIONAL SECRETARIES ASSOCIATION, MEMPHIS CHAPTER annually awards a \$300 scholarship to a graduating high school senior based on scholarship and a desire to be a secretary.

EXECUTIVE INSTITUTE SCHOLARSHIP of \$250 is awarded annually to a second semester junior in The Fogelman College of Business and Economics based on ability, need and an interest in entrepreneurship or financial management.

THE MID-SOUTH SPECIALTY ADVERTISING ASSOCIATION awards one \$1000 scholarship to a marketing major who has interest in a career opportunity in the specialty advertising field.

THE UNION PLANTERS NATIONAL BANK, MEMPHIS STATE UNIVERSITY CHAPTER OF THE COUNCIL OF BUSINESS AND ECONOMIC ALUMNI CHAPTER SCHOLARSHIP AWARDS are given three times per year at \$200 per semester. The awards are based on the student's grade point average.

THE DELTA LIFE AND ANNUITY SCHOLARSHIP covers tuition for a senior majoring in Insurance or Finance.

THE RODERICK HUNTINGTON WHITE STATION OPTIMIST CLUB awards a \$1000 scholarship to a student who is interested in the field of banking who has at least a 2.5 GPA and needs financial assistance to attend Memphis State University.

THE BOBBIE BROOKS SCHOLARSHIP is awarded to a marketing/sale major.

THE YOUNG MORTGAGE BANKERS SCHOLARSHIP is awarded to a student majoring in Real Estate or Finance with a career objective of real estate lending who is an active member of Rho Epsilon Real Estate Professional Fraternity.

THE THOMAS Y. OWEN SCHOLARSHIP is awarded to a U.S. resident accounting major, demonstrating both financial need and outstanding academic achievement.

THE ETHEL LEWIS SCHOLARSHIP is awarded sponsored by the University Center Women of Memphis State University. This award in the amount of the annual registration fee is available to a junior or senior student majoring in office administration or preparing for a career as a business teacher.

DR. R. W. JENNINGS SCHOLARSHIP, a memorial to a former faculty member, provides financial assistance to students in Office Administration.

THE MEMPHIS HOUSEWARES CLUB provides an annual scholarship in the amount of registration fees to a student majoring in marketing.

THE TENNESSEES LEGAL SECRETARIES ASSOCIATION SCHOLARSHIP provides a scholarship annually in the amount of \$500 to a junior or senior student's majoring in office administration or secretarial sciences and who intends to enter the legal secretarial profession. This scholarship is awarded on the basis of scholastic ability and financial need.

College of Communication and Fine Arts

THE VARIETY CLUB: ROBERT S. JOHNSON SCHOLARSHIP established in 1974 to honor the author of the written for the Memphis Press-Scimitar. A \$500 scholarship is awarded to a junior or senior majoring in journalism and seeking a career in some phase of that profession. Both financial need and scholarship are factors in the selection of the recipient.

WILLIAM B. TANNER SCHOLARSHIP IN COMMERCIAL MUSIC of \$500 each is presented annually to two outstanding students in commercial music, artistry, business or technology.

COTERIE CLUB DRAMA SCHOLARSHIP of \$200 is awarded annually to the outstanding woman undergraduate theatre major.

HERBERT HERMANN MEMORIAL PIANO SCHOLARSHIP is awarded to a pianist with at least a 2.0 ACT or a 3.0 GPA. Auditions for jury board exams will be considered. The scholarship selection is coordinated by the Music Department Piano Faculty and the Student Aid Office.

THE FRANK M. McGEE IT FUND SCHOLARSHIP provides \$400 annually in lab subsidies at Motion Pictures Lab, Inc., to a film student in good standing majoring in Theatre and Communication Arts.

ELEANOR B. O'NEILL SCHOLARSHIP of \$500 is awarded to a junior or senior student in journalism, public relations or advertising who shows promise in the field.

JAN GARDNER AND ASSOCIATES INC., ADVERTISING SCHOLARSHIP of \$500 is awarded annually to a deserving journalism student planning a career in advertising or a related field.

MEMPHIS ADVERTISING FEDERATION ASSISTANTSHIP of \$2200.00 is designed to encourage young people with outstanding scholastic and journalistic ability.

MEMPHIS GRIDIRON MIKE MCGEE MEMORIAL SCHOLARSHIP is awarded to an upper classman majoring in journalism who has demonstrated outstanding scholastic and journalistic ability.

SCRIPPS-HOWARD FOUNDATION, EDWARD J. MEEMAN SCHOLARSHIP in the amount \$500 is annually awarded to a junior or senior student in journalism who intends to enter the field of journalism after graduation.

WILLIAM RANDOLPH HEARST FOUNDATION SCHOLARSHIP of \$250 is awarded annually to an upperclassman majoring in journalism who intends to enter newspaper journalism.

HAIR SCHOLARSHIPS are awarded annually to students majoring in theatre and communication arts on the basis of financial need and promise of high achievement.

ISSACHAR BEN EVENING OF SOUL SCHOLARSHIPS are awarded annually to students majoring in theatre and communication arts on the basis of financial need and demonstrated competence in communication and/or theatre arts.

MEMPHIS AREA BROADCASTERS SCHOLARSHIP is awarded annually to an outstanding undergraduate in the area of broadcasting.

THE TERRY PIANO SCHOLARSHIP is awarded annually to a deserving pianist.

THE HAROLD KREELSTEIN SCHOLARSHIP is awarded to a student planning to pursue a career in radio, TV or film and who has demonstrated financial need and academic achievement.

THE ELBA GANDY MEMORIAL MUSIC SCHOLARSHIP is awarded to a student studying music at Memphis State University.

THE LUCILLE BIGBEE SCHOLARSHIP is awarded to a deserving music major.

THE MEMPHIS CHAPTER, PUBLIC RELATIONS SOCIETY OF AMERICA SCHOLARSHIP is awarded to a senior majoring in the public relations sequence with a GPA of 3.0 through the junior year and who is an active member of the MSU PRSSA chapter.

THE SERMONTA CLUB, ROBERT TELLY JOURNALISM SCHOLARSHIP was established to honor a long-time member of the editorial staff of the Memphis Commercial Appeal. Each year the Sermonta Club of Memphis awards a scholarship valued up to \$350 to an advanced journalism student who has done outstanding work at Memphis State University. Applications should be submitted to the dean of the College of Communication and Fine Arts.

THE TENNESSEE ASSOCIATION OF BROADCASTERS SCHOLARSHIP provides one annual scholarship of \$300. This scholarship is awarded to the full-time junior or senior radio/television major with the highest cumulative grade point average for the previous semester.

College of Education

SARAH P. EATON SCHOLARSHIP, funded by a gift from the estate of Sarah Prewett Eaton, provides scholarships for students in education students from Crittenton and St. Francis counties in Arkansas.

ERIK M. LEWIS SCHOLARSHIP is awarded sponsored by the University Center Women of Memphis State University. This award in the amount of the annual registration fee is available to a junior or senior student majoring in office administration or preparing for a career as a business teacher.

DR. R. W. JENNINGS SCHOLARSHIP, a memorial to a former faculty member, provides financial assistance to students in Office Administration.

THE MEMPHIS HOUSEWARES CLUB provides an annual scholarship in the amount of registration fees to a student majoring in marketing.

THE TENNESSEES LEGAL SECRETARIES ASSOCIATION SCHOLARSHIP provides a scholarship annually in the amount of \$500 to a junior or senior student's majoring in office administration or secretarial sciences and who intends to enter the legal secretarial profession. This scholarship is awarded on the basis of scholastic ability and financial need.

MEMPHIS HOME FURNISHINGS ASSOCIATION SCHOLARSHIP is awarded annually to junior or senior who has demonstrated high academic achievement and plans a career in the field.

KIWANIS CLUB OF EAST MEMPHIS MEMORIAL SCHOLARSHIP is presented to a junior or senior majoring in special education who is demonstrating high achievement and need. The recipient must be a resident of Shelby County.

THE DOWN'S PARENTS OF MEMPHIS SCHOLARSHIP is awarded to an outstanding junior majoring in special education. The student must have earned 95 hours but no more than 100 hours. Criteria: leadership, service to the community, scholarship.

THE LETTIE P. WHITENHEAD FOUNDATION SCHOLARSHIP is provided for full-time study in Special Education/Nursing to Christian girls who are in need and deserving of assistance.

WALTER P. WYRICK SCHOLARSHIP is presented annually to a student majoring in special education or rehabilitation who, through a series of essays, demonstrates high scholastic achievement, experience and a willingness to work with the handicapped.

KATHERINE B. SEVEDE SCHOLARSHIP is presented to a senior who is a degree candidate in elementary education, a resident of Shelby County, has demonstrated high academic achievement and need, and plans to pursue the profession of teaching.

MYRLE, WRIGHT SCHOLARSHIP is presented to a student who is seeking a degree in elementary education, a resident of McNairy County area and planning to pursue the profession of teaching.

ALPHA DELTA KAPPA (Alpha Chapter) SCHOLARSHIP is presented to a student who resides in Shelby County, has demonstrated high academic achievement and need and plans to pursue the profession of teaching.

ALPHA DELTA KAPPA (Lambda Chapter) SCHOLARSHIP is presented to a junior or senior who is a resident of West Tennessee and has demonstrated high academic achievement and need to pursue the profession of teaching.

THE ALLEN SHACKELFORD EAST MEMPHIS EXCHANGE SCHOLARSHIP is awarded to a hearing impaired or deaf student who is enrolled full-time at MSU. If no qualified applicant is chosen, the award is to go to a student training to become a teacher of the hearing impaired.

THE QUOTA CLUB OF MEMPHIS SCHOLARSHIP is awarded to a student in school training to be a teacher of the hearing impaired or deaf. The recipient must have financial need for the scholarship.

THE COLLEGE OF EDUCATION ALUMNI CHAPTER SCHOLARSHIP is awarded to an education major. The applicant must demonstrate need and maintain a 3.0 overall GPA.

The Herff College of Engineering

THE MEMPHIS SOCIETY OF PROFESSIONAL ENGINEERS SCHOLARSHIP is awarded to an upcoming junior engineering student.

THE MINORITY ENGINEERING SCHOLARSHIPS are for full-time engineering students who are U.S. citizens or nationals who are Black, Chinese, Hispanic, Puerto Rican or other non-white individuals who are enrolled in engineering programs for the first time and who need some financial assistance in order to pursue an engineering education.

THE RAYMOND JOHN AND MYRILLE FENNER COLTHARP SCHOLARSHIP is awarded to an undergraduate engineering technology student who has at least a 2.0 GPA and financial need.

THE INSTITUTE OF NUCLEAR POWER OPERATIONS SCHOLARSHIPS are awarded on the basis of merit to students with excellent academic records and demonstrated interest in and potential for a career in nuclear power.

THE DEMPSEY B. MORRISON, JR., MEMORIAL SCHOLARSHIP is awarded to an undergraduate engineering technology student who has at least a 3.0 GPA and financial need.

THE BRUCE TUCKER MEMORIAL ASSOCIATED GENERAL CONTRACTORS SCHOLARSHIP is awarded to one student in the engineering technology degree program.

THE RICHARD E. WHITMORE SCHOLARSHIP is awarded to a Tennessee resident who is a sophomore, junior or senior in the Herff College of Engineering demonstrating both financial need and academic achievement, preferably majoring in construction and an active member of the student chapter of ACG.

THE ASSOCIATED GENERAL CONTRACTORS OF MEMPHIS INDUSTRY ADVANCED FUND SCHOLARSHIP, established in 1972, is provided to students who are pre-engineers or to a student majoring in Construction Engineering Technology at U.

THE ASSOCIATED GENERAL CONTRACTORS OF MIDDLE TENNESSEE CONSTRUCTION INDUSTRY ADVANCEMENT FUND SCHOLARSHIP was established in 1974. The \$500 award is made to a student from the Middle Tennessee area majoring in Construction Engineering Technology and planning a career in that profession.

THE HERFF ENGINEERING SCHOLARSHIPS provided annually through the Herfflet Herff Estate are available to beginning and currently enrolled students who have demonstrated aptitude for engineering. Applications for these scholarships are submitted through the Herff College of Engineering.

HOME BUILDERS ASSOCIATION OF MEMPHIS-LADIES AUXILIARY OF MEMPHIS provides two scholarships at \$500 each per year. The recipients are selected by the Division of Technology by a committee of the Home Builders Association. Auxiliary Applications must be Technology students in need.

THE W. F. JAMESON MEMORIAL SCHOLARSHIP is awarded annually to a freshman student in the Herff College of Engineering. The recipient of this scholarship must intend to pursue a career in construction engineering.

THE TENNESSEES LEGAL SECRETARIES ASSOCIATION, PROFESSIONAL ENGINEERS AND THE MEMPHIS STATE UNIVERSITY FOUNDATION jointly sponsor two scholarships annually for a junior and senior year engineering student. Applications for these scholarships are submitted through the Herff College of Engineering.

ASHLAND-WARREN SCHOLARSHIP provides a \$425 scholarship annually to one junior or senior student majoring in construction technology with priority being given to students taking a course(s) in brimstone projects. Selection is based on academic achievement and financial need. Applications are made through the Division of Engineering Technology with final selection being made by Ashland-Warren Company.

THE WHIRLPOOL MANUFACTURING TECHNOLOGY SCHOLARSHIP provides a \$350 scholarship annually to junior and senior students majoring in engineering technology with interest in metal products manufacturing.

TENNESSEE ROAD BUILDERS ASSOCIATION provides four scholarships per year at \$400 each. Students must be interested in following a transportation career and construction related to road building. Selection is made by the Tennessee Road Builders Association.

Department of Nursing

THE SHARON L. HANSARD MEMORIAL SCHOLARSHIP is awarded to a student enrolled in MSU's Department of Nursing. The applicant must be of high moral character, dedicated

to service to others, possess academic ability and have a need for financial assistance to attend MSU.

THE DEBRA ANN BOONE SCHOLARSHIP is awarded to a junior or senior majoring in nursing, who demonstrates financial need and maintains at least a 2.5 GPA.

THE NURSING ALUMNI SCHOLARSHIP is designed to assist deserving students in pursuing a nursing career. The applicant must maintain a 3.0 or better GPA.

Special Scholarships

ARMED FORCES COMMUNICATIONS AND ELECTRONICS ASSOCIATION (AFCEA) awards one \$500 scholarship annually to a member of AFROTC or AFCEA who is majoring in a course relating to AFCEA's sphere of interest (Electrical Electronics or Communications Engineering; or technical photography). The winning cadet receives two checks for \$500 each: one for use in the junior year, one for use in the senior year. Applications should be directed to the Department of Aerospace Studies.

AFROTC COLLEGE SCHOLARSHIPS cover full tuition, laboratory fees, incidental fees, reimbursement for textbooks and \$100 per month non-taxable pay are available to those enrolling in the Aerospace Studies program. Scholarships may be awarded for three, four or five years and must be applied for during the school year preceding their activation. Four-year scholarships are available only to those qualified to enter their flying training. Eligible students must be in Force ROTC, Faculty of School of Aerospace Research, Maxwell AFB, AL 36112, not later than December 15 of their senior year in high school. Applications for other scholarships (2nd and 3rd year) are handled through the Department of Aerospace Studies and must be submitted by Spring Commencement of the preceding year.

BAND SCHOLARSHIPS varying in amounts from \$50 to \$250 are awarded annually to University band students. Inquiries should be addressed to the Director of Bands.

THE JAKE FONDREN SCHOLARSHIP recipient must be a U.S. citizen, in good academic standing, demonstrate financial need, an undergraduate and exhibit a definite interest in golf.

THE MEMPHIS AMATEUR BOXING ASSOCIATION SCHOLARSHIP provides two scholarships annually in the amount of \$500 each. Priority is given to full-time students who are members of the Memphis Amateur Boxing Association. The purpose of this scholarship is to encourage academic achievement and foster an interest in amateur boxing in the Memphis area, and to assist students who need help with educational expenses.

THE U.S. RACQUETBALL ASSOCIATION, INC., SCHOLARSHIP is achieved through direct competition with players and teams from around the country in racquetball. The scholarship is available only if the team wins the championship.

THE KODAK EMPLOYEE/ALUMNI GRANTS are awarded on the basis of Memphis State graduates that are celebrating their fifth anniversary with Eastman Kodak. Scholarships are given to colleges from which the alumni graduated.

LOANS AND GRANTS

Supplemental Educational Opportunity Grant Program

The Supplemental Educational Opportunity Grant Program is a federally subsidized program whereby direct gift awards may be made to undergraduate students with exceptional financial need. Normally, Educational Grants are awarded as a part of a financial package since the amount a student may receive cannot exceed one-half his established need. Students applying for Educational Grants must demonstrate academic or creative promise; the stipend may range from \$200 to \$1000 based on the student's established need.

Law Enforcement Education Program

The Law Enforcement Education Program, as enacted by the Omnibus Crime Control and Safe Streets Act of 1968, offers assistance in the form of loans and grants to law enforcement officers desiring to continue their education in the law enforcement field.

National Direct Student Loan Program

The National Defense Education Act of 1958 provided funds to institutions of higher education for the purpose of making low interest, long-term educational loans available to students who demonstrate academic promise and who have a need for financial assistance. These loans

bear no interest until nine months after a student graduates or interrupts his course of study; then the interest rate is five per cent of the unpaid balance with a maximum repayment period of ten years. Repayment may be deferred for service in the Peace Corps or Vista.

Freeman Loan Scholarship Program

The Freeman Loan Scholarship Program was established for the sole purpose of providing worthy/needly students scholarship loans to help pay a part of their educational costs when other financial assistance is not available. Eligibility for this low interest long term loan program is based upon satisfactory academic progress and financial need. Applicants for this program must submit the ACT Family Financial Statement and other documents evidencing financial need.

Loan Funds

The University maintains a number of small loan funds for assisting students with emergency type loans. A listing of these is as follows:

THE AMERICAN ASSOCIATION OF UNIVERSITY WOMEN LOAN FUND of \$200 administered by the Memphis branch of AAUW is available to women students recommended by the University.

THE GENERAL EVERETT R. COOK ARNOLD AIR SOCIETY LOAN FUND was established to provide financial assistance in the form of short-term loans for students enrolled in the Professional Officer Course of the Air Force Reserve Officers Training Corps.

THE GENERAL UNIVERSITY LOAN FUND provides short-term, low interest loans up to \$200 for those students in emergency situations.

THE KAPPA LAMBDA SIGMA AND PHI LAMBDA DELTA LOAN FUND of \$200 was presented to the Kappa Lambda Sigma Chapter of the Kappa Delta Rho Fraternity in memory of those members of Phi Lambda Delta who died in World War II.

THE DELTA OMICRON CHAPTER OF PHI DELTA KAPPA sponsors a loan fund of \$500, available in \$12.50 loans to full-time undergraduate seniors and full-time graduate students who are planning to be teachers.

TENNESSEE ASSOCIATION OF PUBLIC ACCOUNTANTS LOAN FUND of \$200 is available to a full-time senior student in the Department of Accountancy to remain in the University. Loans are non-interest as long as student remains in the University.

THE GENERAL RALPH H. WOOTEN LOAN FUND was established for the purpose of providing low-interest educational loans to students enrolled in the Air Force Reserve Officers Training Corps.

THE ZONTA CLUB OF MEMPHIS LOAN FUND of \$250 is available to eligible junior and senior women. Applicants' names are submitted to a committee of the Zonta Club for approval and selection.

Registration/Emergency Loan Program

The Registration/Emergency Loan Program was established for the purpose of providing one-time low interest short term educational loans to assist students with registration costs and to assist students who have educationally related emergency situations. Eligibility is based upon a 2.0 GPA, a semester of previous enrollment, and the student must not have any indebtedness to the University.

The Tennessee Student Assistance Award Program

Students who are residents of the state of Tennessee may apply for a Tennessee Student Assistance Award. These grants are awarded to students for one-half of the amount of registration fees. In order to apply, a student must submit a financial statement to the following:

Tennessee Student Assistance Corporation

B-3 Capitol Towers, Suite 9
Nashville, Tennessee 37219

The ACT Code number for the Tennessee Student Assistance Corporation is 4015. Applications for this grant may be obtained through the Student Aid Office or by writing to the above address. Determination as to grant recipients is made by the Agency in Nashville. For more information, write to the Tennessee Student Assistance Corporation.

Pell Grant

The Pell Grant is a non-repayable, federally funded, grant program for undergraduate students only. The amount is determined by the financial eligibility of the student (family) and the cost of college attendance. Students must be admitted as regular undergraduates and be enrolled for at least 6 credit hours to be eligible for the program. Applicants who submit the ACT Family Financial Statement or Pell Grant Application may expect to receive a Student Eligibility Report (SER) within four to six weeks. All three copies of the report should be sent to the Student Aid Office as soon as possible for processing at Memphis State University.

Other Loan Plans

There are several reliable plans under which parents may make loans to help defray the cost of college expenses. These plans provide loans at nominal rates of interest and are repayable in monthly installments. One such plan is Tuition Plan, Inc. Parents interested in securing additional information about college financing of this type can obtain more information by writing to the following:

The Tuition Plan, Inc.
Concord
New Hampshire 03301

The Tennessee Educational Loan Corporation, in cooperation with the federal government, guarantees 100 per cent of loans made by Tennessee banks or other lending institutions to students from Tennessee who need to borrow money for their college education. This program enables lending institutions to provide long-term, low interest loans to students with a guarantee of receiving payment. In most cases the federal government will pay the interest on these loans while the student is enrolled in college, and repayment does not begin until the borrower leaves college. Applications may be obtained from participating lending institutions and will be furnished by the University upon request. Similar programs known as Guaranteed Student Loans or Federally Insured Student Loans are available for non-residents through their home states. The Student Aid Office maintains a listing of all state agencies.

STUDENT EMPLOYMENT

There are many employment opportunities available through the University. The University operates two programs of student employment on campus: the College Work-Study Program and the Regu-

lar Work Program. Students seeking employment should contact the University Student Employment Office in Scaates Hall (Room 314). Applications for regular employment may be filed at any time during the year. To apply for College Work-Study Programs, students must file the ACT Family Financial Statement, Pell Grant and show financial need. The Tennessee Department of Employment Security maintains an office on campus for assisting students with off-campus employment.

Satisfactory Progress Policy

All students who receive financial aid must be working toward a degree and comply with all institutional, state and federal policies and standards applying to financial aid programs. In order to assure that student aid recipients make progress toward that degree, both in terms of the number of hours completed and the cumulative GPA, Memphis State University will utilize the following Satisfactory Progress Policy.

Progress Standards

1. Course Completion Progress: Students must, as a minimum, complete the requirements of 75% of the cumulative hours for which they receive financial aid payment.
2. Cumulative Progress: Students, in addition to the above, must meet the academic retention standards of Memphis State University.
3. Term Progress: Any student who has a GPA of 0.0 for any term will be placed on Financial Aid Probation.
4. Withdrawal: Any student who withdraws will be placed on Financial Aid Probation.
5. Transfer Students: Transfer students must complete 75% of the course requirements for which they received financial aid payment during their last term of enrollment or they must have met the requirements of satisfactory financial aid progress at the previous institution.

Financial Aid Probation

1. Students will be placed on Financial Aid Probation for their next term of enrollment if they fail to meet any standard as outlined above for any term.
2. A student who is placed on academic probation is automatically on Financial Aid Probation.

Removal from Probation

1. A student will be removed from Financial Aid Probation at the end of the probation term if he/she satisfactorily completes the term and meets the requirements of Progress Standards.

Removal from Financial Aid

1. A student on Financial Aid Probation who fails to meet the standards of progress in the probation term of enrollment will not be able to receive additional financial aid until such time as he/she meets the standards for removal from Financial Aid Probation.
2. Any student who has a GPA of 0.0 for the second time will be removed from financial aid for one term of enrollment.
3. Any student who withdraws for the second time from the University will be removed from financial aid. A third withdrawal will result in the student's being permanently removed from financial aid.

Administrative Appeals

Students placed on Financial Aid Probation or removed from financial aid can appeal that decision to the Director of

Student Aid. The appeal must be prepared in writing and be accompanied by appropriate support documents. If not satisfied with the decision of the Director, any student can take the appeal to the Associate Dean for Student Development. Any subsequent appeal may be made to the Vice President for Student Educational Services and the President of Memphis State University. Reasons that may be acceptable for the appeal are:

1. Serious illness or accident to the student. This will normally require a medical statement from a physician.
2. Death, serious illness, or injury in the immediate family (parent, children, spouse). A physician's statement or appropriate death certificate will be required.
3. Administrative errors by Memphis State University.
4. Other extenuating circumstances may be acceptable and will be considered.

Policies and Conditions of Student Aid Awards

All awards are subject to the following conditions:

1. The Student Aid Office reserves the right to review/cancel awards due to changes in financial circumstances, academic standing, enrollment status, program status, failure to observe standards of citizenship and failure to meet the requirements of satisfactory academic progress.
2. All awards are tentative, subject to:
 - a. Legislative appropriation and receipt of funds by Memphis State University.
 - b. Student's full-time enrollment (except in cases of Pell Grant Awards) in a regular degree program: 12 hours per semester for undergraduates and 9 hours per semester for graduate and law.
 - c. Students meeting and maintaining federal, state and institutional program requirements.
 - d. Student's notification of the Student Aid Office if outside loans or scholarships are received.
3. Alumni Scholarship recipients must maintain a 3.0 overall GPA. State Board Scholarship recipients must maintain a 2.8 overall GPA and must follow guidelines given at the time of registration.
4. Students receiving financial aid who withdraw or drop below full-time enrollment from the University must notify the Student Aid Office.
5. All awards (loans, scholarships and grants) administered by the University are subject to the University's Refund Policy and the Student Aid Refund/Repayment Policy.
6. College Work Study awards do not pay tuition/dorm fees. College Work Study is a part-time job; do not expect to study during work hours. Report to the Student Aid Office the week before registration or during registration for job placement. Students must enroll full-time and maintain full-time enrollment status.
7. Students receiving loans are required to attend an initial interview according to instructions given at the time of registration. All loan recipients must have an exit interview prior to leaving the University.
8. All award recipients (scholarships, loans, grants, and College Work Study) must reapply by April 1 of each year. It is the student's responsibility to secure and complete the appropriate application materials.

9. Loan, grant and scholarship awards are disbursed in one-half amounts at the Grant and Loan Station in the Registration Center during EACH registration, fall and spring. Remember, College Work Study is NOT disbursed to aid in payment of initial semester fees.

10. Students who receive grants, loans and scholarships and fail to enroll for the required number of hours will be subject to penalty an in some circumstances subject to criminal prosecution.

Student Aid Refund Repayment Policy

The formula prescribing the amount of Title IV funds to be refunded to Title IV accounts has been established by federal regulations, the policy is: Title IV funds disbursed for the payment period (excluding CWSP)/Total aid disbursed including Title IV funds but excluding CWSP X MSU. Federal regulations stipulate that each institution shall develop written policies to determine which Title IV Program(s) will receive the refund or repayment.

REFUND:

1. When a refund is due a student and Title IV funds are involved and the financial aid awarded is equal to or in excess of the amount of the student's full tuition/maintenance fees, the Student Aid Office will determine according to the federal formula the portion of federal aid funds to be returned to the federal aid account. The refund amount will be placed in the respective aid account(s) in the same proportion as the aid awarded.

2. When a refund is due a student and Title IV funds are involved and the financial aid awarded is less than the amount of the tuition/maintenance fees paid by the student, the Student Aid Office will determine what portion of the refund should be returned to the student based upon the following formula: Amount of tuition/maintenance fees paid divided by the total amount of tuition/maintenance fees times the MSU computed refund equals the amount returned to the student. The remainder of the refund will then be distributed according to the required federal formula and the procedures outlined in 1 above.

3. Refunds applicable to non-Title IV funds will be distributed to the respective aid account in the same proportion as the aid awarded.

4. A 100% refund will be given in the event of death.

REPAYMENT:

When a student receives financial aid and one of the following situations occur: (a) the student is issued a contingency fee card which is not honored by the fund agency involved; (b) the student receives an overpayment due to non-eligibility or administrative error; (c) the student withdraws prior to the start of classes or fails to pay tuition/maintenance fees; the student must repay the total amount of aid received or overpaid.

University Placement

Placement services are provided to assist graduating seniors and alumni communicate with prospective employers for full-time, permanent employ-

ment. Services include personal data files, on-campus interviews, listings of employment opportunities, employer information library and assistance in the techniques of interviewing. Registration with Placement is required prior to being referred for employment and should be completed two semesters prior to graduation.

Similar placement services are offered by the Teacher Placement Office. This office serves students in the teacher education program and alumni desiring information concerning job vacancies in education.

A branch office of Tennessee Employment Security assists students seeking part-time employment. Attempts are made to place students in part-time jobs which are in keeping with their ultimate career goals.

STUDENT LIFE

Student Life is one of many components of the university community that combine to offer students a wide variety of learning experiences outside the formal classroom setting. These learning experiences, often classified in terms of co-curricular or student developmental activities, are available through group and individual experiences.

A major facet of student development falls under the administrative responsibility of the Division of Student Educational Services and in particular, the Associate Dean for Student Life. Included in the area of Student Life are Student Organizations, Greek Activities, Commuter Services, New Student Orientation, University Programming, Religious Affairs, Volunteer Services, the University Center, Who's Who, Cheerleaders and Pom-Pon Squad. Information on these and other co-curricular activities may be obtained in the Office of the Associate Dean for Student Life, University Center 419.

Participation in student groups and organizations is beneficial to an individual while a student and in his chosen profession. Participation in student developmental activities supplements formal classroom learning by providing a real life laboratory in which students can grow and develop individual competencies. Students in good academic standing are encouraged to become involved in these activities.

Some organizations, because of their individualized requirements, may necessitate the student's meeting certain academic or other requirements. Invitation to membership, when required, is extended by the organization.

Complete information on the many and varied student developmental activities is available from the *Student Handbook* and the *Student Organizations and Activities Directory*. Copies are available at registration or in the Office of the Associate Dean for Student Life. The following

section is a brief description of some of the major activities.

Student Government

The Student Government Association office is located in the University Center (Suite 410) (454-2051). Through authority delegated to it by the University, the SGA represents student opinion in working with other University components. Elected annually, the SGA is composed of the Executive Branch, which consists of the President, Vice President, Attorney General, Secretary of State, and the Secretary of Campus Affairs; a Senate, which consists of the Speaker and 32 senators; a Judiciary, which consists of the Chief Justice and 9 court Justices.

Publications

Students write and edit *The Helmsman*, newspaper (4 issues per week); and the *DeSoto*, University yearbook, under the auspices of the Department of Journalism; *The Phoenix*, literary magazine sponsored by the Department of English; and the *Student Handbook*, under the auspices of the Division of Student Educational Services.

Religious Affairs

Several religious organizations maintain meeting facilities close to campus or meet in University facilities. These organizations provide activities adapted to the needs of the University and are designed to aid in the continuing religious growth and development of members of the university community. The organized religious groups include the Baptist Student Union, Barth House (Episcopal Student Center), Campus Crusade for Christ, Catholic Student Center, Christian Science Organization, Christian Student Center (Church of Christ), Inter-Faith Council, Jewish Student Union, Latter Day Saint Student Association (Mormon), Maranatha Christian Fellowship (Charismatic), Muslim Student Association, Navigators, United Students for Christ, The Way International, Wesley Foundation (United Methodist), Westminster House (Presbyterian).

Art and Music

The Department of Art sponsors lectures, films, and shows as part of its yearly program. Galleries are located in the Communication and Fine Arts Building.

The Department of Music offers activities and programs in which students may participate as individuals or as groups. Qualified students, regardless of major, may participate in the numerous musical groups including the University Symphony Orchestra, the University Bands, and a variety of choral groups and small instrumental ensembles. Additionally, the University's state-of-the-art 24 track recording studios are open for student use after proper instruction.

Theatre

Students are invited by the Theatre and Communication Arts Department to audition for roles in plays, a Lunch Box Experimental Theatre, Readers' Theatre, and an original script program.

Communications

Programs in radio, television, and film are offered by the area of Communication Arts. WSMS-FM 92 is student owned and operated. Two state-of-the-art television/film studios also offer students the opportunity to participate in broadcasting quality productions.

The Goodwyn Institute Lectures

A series of free lectures and addresses, covering a wide variety of subjects, are offered by the Goodwyn Institute. The aim of the institute is to offer to the citizens of Memphis and the University authoritative and accurate information on all kinds of practical and cultural subjects.

Social Fraternities and Sororities

Sixteen national fraternities and eleven national sororities are active on the Memphis State campus. The University strives to maintain a strong Greek system through coordination of Greek activities provided by the Office of Student Organizations.

Fraternities: Most fraternities maintain chapter houses close to campus to provide living and meeting facilities for fraternity members. Student direction and guidance are provided through the Interfraternity Council and Pan-Hellenic Council. The national fraternities include Alpha Phi Alpha, Kappa Alpha, Kappa Alpha Psi, Kappa Sigma, Lambda Chi Alpha, Omega Psi Phi, Phi Beta Sigma, Phi Gamma Delta, Delta Upsilon, Phi Sigma Kappa, Pi Kappa Alpha, Pi Kappa Phi, Sigma Alpha Epsilon, Sigma Chi, Sigma Phi Epsilon, and Tau Kappa Epsilon.

Sororities: Most sororities maintain suites in the Panhellenic Building located on the corner of Veterans and Patterson. Student direction and guidance are provided through the Panhellenic and Pan-Hellenic Councils. The national sororities include Alpha Gamma Delta, Alpha Delta Pi, Alpha Kappa Alpha, Delta Gamma, Delta Sigma Theta, Delta Zeta, Gamma Phi Beta, Phi Mu, Pi Beta Phi, Sigma Gamma Rho, Sigma Kappa, and Zeta Phi Beta.

Additional information about the Memphis State Greek system can be obtained from the Office of Student Organizations and Greek Affairs (901) 454-2093.

University Center

The University Center, located in the heart of the campus, is the focal point for activities and events for the University

community. The facility is an integral and vital part of the educational life of the campus, sharing goals of academic and personal development. The Center is an organization and a program designed to encourage students and other members of the community to meet and share interests, talents, ideals in an action-learning setting.

Along with its many programs and activities, the Center provides many conveniences such as Food Service, Automatic Banking, Bookstore, Sign Shop, Ticket Office, Gameroom, Rental lockers, Television Room, Stereo-Listening Rooms, Vending, Copy Machine, Public Phones, and Central Scheduling and Information Area. The Center's continuing goal is the creation of an atmosphere that encourages individual self-development as a concerned, humane citizen and to serve as a unifying force in the life of the University.

University Programs

University Programs is the principal programming body for the university community. It is composed of students selected and appointed with the purpose of providing social, cultural, recreational and educational activities, and events that appeal to all tastes. University Programs endeavors to develop the individual, broaden his interest, stimulate creativity, encourage display of talents and stress leadership and group interaction. Talent shows, Miss Memphis State, lectures, movies, speakers and tours are just a few of the many activities planned and facilitated by University Programs. For additional information, call 454-2035.

Intramurals and Recreation Services

As a division within the Department of Health, Physical Education and Recreation, the intramural and recreation program is designed to fulfill a vital educational function and provide students, faculty and other members of the University community the opportunity to participate in a variety of activities for personal enjoyment and satisfaction.

The H.P.E.R. Complex provides excellent facilities for instructional, intramural and sports programs. The sports activities, including individual and group, range over approximately 30 different sports. The Division supervises recreational use of the H.P.E.R. Complex; provides for the loan and rental of sports and camping equipment; provides for the reservation of tennis courts, racquetball-handball courts and other play areas; organizes intramural tournaments; sponsors leisure course series, clinics and events; and coordinates a sports club/activity program.

The student oriented Intramural and Recreation staff gives personal attention to the needs of individual students, faculty, and staff. Detailed information regarding programs and events may be

obtained from the various offices within the Physical Education Building.

The H.P.E.R. Complex consists of the Physical Education Building at Spotswood and Echols streets; and the Field House on the eastern border of the main campus. These buildings and outdoor facilities include: 21 PEB and 10 FH tennis courts; one PEB and two FH sports field areas with 4 softball diamonds, 6 shuffleboard courts, all-weather track and space for soccer, a basketball court, football, volleyball and frisbee golf course; 9 air conditioned PEB and 6 FH racquetball-handball courts; indoor and outdoor swimming pools with diving wells; PEB weight room combative rooms, men's steam room and separate men's and women's saunas; and FH free bar weight room, dance studio, gymnastic room and archery range.

Honor, Recognition, and Professional Organizations

Memphis State University is proud to have many national honor and recognition societies devoted to encouraging high standards of scholarship, leadership, and professional competence. These societies, through their programs and professional activities, provide an additional aspect of student development which would not ordinarily be obtained. Detailed information concerning these societies, including requirements for membership, purposes, and specific activities, can be found in the *Student Handbook*, from sponsoring university departments and in the Office of Student Organizations, 454-2039.

Honors and Awards

THE COLLEGE OF ARTS AND SCIENCES

THE BETA BETA BETA AWARD is annually presented to the graduating senior and member of the Society who graduates with the highest grade point average in biology.

THE AMERICAN INSTITUTE OF CHEMISTRY AWARD is presented to the graduating chemistry major who best demonstrates leadership, ability, character and scholastic ability.

THE DEPARTMENT OF ENGLISH offers several awards:

- The Distinguished Scholarship Award presented each year to the English major whose work demonstrates an unusually high order of academic excellence.
- Honors Thesis Award presented in recognition of the outstanding honors thesis submitted during the previous academic year by a student in the English Honors Program.
- Freshman Writing Awards. Presented for creative excellence shown by freshman writers of essays, poetry, and fiction.

FRNCH GOVERNMENT ASSISTANTSHIPS: The French Government through French Embassies in the United States, on the recommendation of the French Section of the Department of Foreign Languages, awards each year one or more assistantships in France for the teaching of English in secondary schools.

DEPARTMENT OF GEOGRAPHY presents each year the Paul H. Sisco Award to the outstanding senior geography major.

THE DEPARTMENT OF HISTORY annually presents the Tennessee Historical Commission Award to that senior student of history judged by the faculty to be the outstanding history major.

THE DEPARTMENT OF PHILOSOPHY OUTSTANDING STUDENT AWARD is presented to that student of philosophy chosen on the basis of high scholastic achievement, papers written, and performance in senior honors seminars.

THE DEPARTMENT OF POLITICAL SCIENCE presents the Outstanding Student Award each year to the graduating senior chosen in political science who has compiled the best record of academic achievement in the discipline.

THE DEPARTMENT OF PSYCHOLOGY sponsors the Undergraduate Research Festival Awards based on fine papers, each

reporting on a research project originated and conducted by an undergraduate student in psychology.

THE DEPARTMENT OF SOCIOLOGY annually presents The Outstanding Student Award to the senior student judged to be the outstanding sociology major. Also, the **DIVISION OF SOCIAL WORK** presents the Graduate with Distinction Award to the graduate who has demonstrated outstanding achievement, and potential for professional service.

ALPHA EPSILON DELTA, pre-medicine and allied health professions honor society, annually presents the Student of the Year Award to the member who has demonstrated outstanding achievement and leadership.

CHI BETA PHI SCIENCE AWARDS: The student who has attained the highest academic average during his four years of study in each of the following disciplines: Biology, Chemistry, Geology, Mathematical Sciences, Physics, and Psychology is honored by having his name inscribed on a plaque.

THE FOGLIEM COLLEGE OF BUSINESS AND ECONOMICS

THE TENNESSEE SOCIETY OF CERTIFIED PUBLIC ACCOUNTANTS AWARD, Memphis Chapter, is presented annually to the graduating student who has the highest overall scholastic average in the accounting major.

THE MEMPHIS CHAPTER OF THE SOCIETY OF CHARTERED PROPERTY CASUALTY UNDERWRITERS annually awards a check and a plaque to the outstanding student in the field of insurance.

SOCIETY FOR ADVANCEMENT OF MANAGEMENT SCHOLARS is annually awarded to that member of SAM who has served the society in an exemplary manner and demonstrated leadership in the field of management.

THE NATIONAL BUSINESS EDUCATION ASSOCIATION annually awards a certificate of merit, a one-year subscription to the *N.B.E.A. Forum* magazine, and a one-year membership card in the Memphis Chapter to the outstanding graduating senior who has majored in the field of business education.

PII GAMMA NU, professional sorority in business, each year presents a scholarship key to the woman business graduate who has attained the highest scholastic average in The College of Business Administration.

DELTA SIGMA PI, international business fraternity, annually awards a scholarship key to the man in The College of Business Administration graduating with the highest academic average in business.

THE COLLEGE OF COMMUNICATION AND FINE ARTS

DEAN'S ACADEMIC ACHIEVEMENT AWARD is available to a student majoring in a discipline within the College of Communication and Fine Arts. It recognizes the graduating student with the highest grade point average.

DEAN'S CREATIVE ACHIEVEMENT AWARD is based on outstanding creative achievement in an area encompassed by the College of Communication and Fine Arts.

SIGMA DELTA CHI CITATION, Memphis Chapter, annually presents a certificate of achievement to the student chosen as outstanding in the field of journalism.

SOCIETY FOR COLLEGE JOURNALISTS annually awards the Medal of Merit for outstanding achievement on campus publications.

SOCIETY OF PROFESSIONAL JOURNALISTS, SIGMA DELTA CHI MARK OF EXCELLENCE AWARDS, Arkansas, Louisiana, Mississippi, West Tennessee Region, annually presents first place awards for Best TV Broadcast, Best Editorial Cartoons, Best Feature Story, and Best Photography Feature.

SIGMA ALPHA IOTA COLLEGE HONOR AWARD annually presents an award band on musicianship, scholarship, and general contribution to the Collegiate Chapter.

SIGMA ALPHA IOTA HONOR CERTIFICATE is presented annually to the music major graduating with the highest academic average.

PAUL EAHEART MEMPHIS WOODWIND QUINTET SCHOLARSHIP is presented in honor of Paul Eaheart for excellence in wind performance.

NAOMI C. HAIMSONH AWARD IN CLASSICAL MUSIC COMPETITION is presented to a student for composition for excellent composition. The competition is available by the Chickasaw Branch of the National League of Penwomen in honor of Mrs. Haimsonh, composer and pianist.

HERMANN PIANO AWARD is presented annually in memory of Professor Herbert Hermann for excellence in piano performance.

UBRANI CLARINET AWARD, in memory of Professor Frederic Ubrani, is presented for performance ability, general scholarship, service to the Music Department, and potential in the profession.

SMIT COMPOSITION AWARD is presented in memory of Professor Johnnes Smit for excellence in composition.

THE COLLEGE OF EDUCATION

THE DEPARTMENT OF DISTRIBUTIVE EDUCATION OUTSTANDING SENIOR AWARD is presented each year to the graduating senior in the department with the highest academic average.

DECA SERVICE AWARD is presented annually to the senior majoring in distributive education who has made the most outstanding contribution to Memphis State Chapter.

ELIZABETH MARGARET MCGOWAN AWARD is presented each year to the outstanding junior or senior woman physical education major who displays strong leadership, outstanding character, high scholarship, and an active role in departmental and campus activities.

DEPARTMENT OF FOUNDATIONS OF EDUCATION OUTSTANDING GRADUATE STUDENT AWARD is annually presented to the most outstanding student based on scholarship,

accomplished or planned research, teaching competency or professional involvement, and faculty rating.

RALPH HATLEY, SR. AWARD is presented to the outstanding junior or senior member of the education field who displays strong leadership, outstanding character, high scholarship, and an active role in departmental and campus activities.

OUTSTANDING STUDENT IN RECREATION AND PARKS AWARD is presented in recognition of meritorious scholarship, leadership, and service to the University, the community, and the profession.

HOLIDAY ANN HOME ECONOMICS AWARD is presented each year to the graduating senior with the highest academic grade point average in home economics.

DEPARTMENT OF SPECIAL EDUCATION AND REHABILITATION OUTSTANDING STUDENT AWARD is annually presented by the Student Council for Exceptional Children to the outstanding junior or senior student who displays strong leadership, outstanding character, scholarship and an active role in departmental and campus activities.

KAPPA DELTA PI AWARDS: Junior Academic Award is presented to the outstanding junior in The College of Education, Senior Academic Achievement Award is presented to the outstanding senior in The College of Education.

MEMPHIS EDUCATION ASSOCIATION AWARD is presented each year to the graduating senior who, having graduated from the Memphis City Schools System and completed all college level work in a teacher education program at the University, has attained the highest grade point average of the students in the category.

HEBER E. RUMBLE, OUTSTANDING STUDENT TEACHER AWARD is presented each year to the student whose performance in student teaching is judged to be the most outstanding.

DEAN'S AWARD IN THE COLLEGE OF EDUCATION is presented on the basis of scholarship, professionalism, leadership, and service to the College of Education, the University, and/or professional organizations.

THE HERFF COLLEGE OF ENGINEERING

OUTSTANDING SENIOR AWARDS in the College of Engineering are presented to the outstanding senior in each of the five departments of the college: Chemical, Civil, Electrical, Industrial, Mechanical Engineering, Geology, and Engineering Technology based on scholarship, leadership and service.

OUTSTANDING STUDENT MEMBER OF IEEE is presented an award by The Institute of Electrical and Electronics Engineers, student chapter.

ENGINEERING TECHNOLOGY SOCIETY AWARD is annually presented to the outstanding student by the student chapter.

AMERICAN INSTITUTE OF ARCHITECTS presents annually the outstanding achievement awards.

ASSOCIATED GENERAL CONTRACTORS AWARD is presented annually by the student chapter for outstanding achievement.

ENGINEERING DEAN'S AWARD is presented annually to the graduating student who has compiled the highest academic achievement in the college.

UNIVERSITY COLLEGE

DISTINGUISHED SPECIAL PROJECT AWARD is presented to each student whose special project has been judged outstanding by the Faculty Council of University College.

DEPARTMENT OF AEROSPACE STUDIES

LEGION OF VALOR BRONZE CROSS OF ACHIEVEMENT recognizes one outstanding Air Force ROTC senior cadet in the Ohio Valley for performance and achievements as an AFROTC cadet.

AMERICAN FIGHTER ACES ASSOCIATION AWARD recognizes the outstanding graduating AFROTC pilot candidate in the southeast based on performance and achievements as an AFROTC cadet and performance in the Flying Instruction Program.

THE PRESIDENT'S AWARD is PRESENTED annually to the MSU Freshman or Sophomore AFROTC cadet who has demonstrated outstanding attributes of leadership and high moral character. Selection is made by AFROTC with final approval by the University President.

ANGEL OF THE YEAR AWARD is presented to the member of Angels of the Year who has given the most in service to the campus and the community.

ARNOLD OF THE YEAR AWARD is presented to the member of Arnold Air Society who has given the most in service to the campus and the community.

SPECIAL AWARDS

MARIA LEONARD SCHOLARSHIP AWARD is presented annually by Alpha Lambda Delta, national scholastic honor society, to the senior member of the society with the highest academic average.

GOLDEN KEY NATIONAL HONOR SOCIETY presents annually two scholarships to junior and senior members of the local chapter who have excelled in scholarship, leadership and participation in activities.

PHI KAPPA PHI SCHOLARSHIP AWARD is presented annually to the member of the society who graduate with the highest academic average.

THE INTERFRATERNITY COUNCIL SCHOLARSHIPS of \$200 each are awarded annually to the pledge/associate from the previous fall or spring semester who attained the highest grade point average, and, to the fraternity member with the highest grade point average over the past two consecutive semesters.

THE PANHELLENIC COUNCIL annually awards two \$200 scholarships to the sophomore and junior sorority members who have attained the highest scholastic average. In addition a Pledge Scholarship in the amount of her sorority's

initiation fee is awarded to the fall semester pledge who attained the highest average for the semester.

WOMEN'S INTERCOLLEGiate ATHLETICS SCHOLAR AWARD is presented annually to the woman athlete who has maintained the highest grade point average while at the University.

THE ROBIN RONINE OUTSTANDING WOMAN ATHLETE AWARD is presented to the junior or senior woman athlete who exemplifies the following qualities: drive, enthusiasm, determination, concern for others, the love for athletics, maturity, involvement in campus activities, and self-discipline in all aspects of life.

CAMPUS RECREATION AND INTRAMURALS AWARDS are presented annually to the intramural Greek, intramural Independent Resident, Paraplegic, Manager of the Year, and to the Outgoing President of the Year who shows leadership and interest in the intramural program.

THE STUDENT GOVERNMENT ASSOCIATION presents at each commencement convocation a plaque to the graduating senior who has attained the highest cumulative average.

STUDENT HOUSING

The University operates four residence halls for men and six residence halls for women. No one is required to live in a residence hall, and students who wish to do so should make application at the earliest possible date. Application for housing must be made independently of the application for admission to the University, and forms may be obtained from the Residence Life Office. Completed applications should be returned to the Residence Life Office. A request form for additional information is found in the back of the *Bulletin* with the application form. For information concerning residence hall rents and deposits see section 3, *Fees and Charges*.

APPLICATION PROCEDURES: Applications for resident hall space may be obtained from the Office of Residence Life, M.S.U., Memphis, Tennessee, 38152. Because spaces are allocated by date of receipt, completed applications accompanied by the required \$100 application/security deposit should be returned to the Office of Residence Life as soon as possible. Checks or money orders should be made payable to Memphis State University; please do not send cash.

Receipt by the Office of Residence Life of the housing application and \$100 check or money order, however, does not guarantee admission to the University or to a residence hall. THE DIRECTOR OF RESIDENCE LIFE RESERVES THE RIGHT TO REFUSE ANY HOUSING APPLICATION, TO CHANGE OR CANCEL ANY ASSIGNMENT, OR TO TERMINATE A RESIDENT'S OCCUPANCY, FOR JUSTIFIABLE CAUSE.

ELIGIBILITY: The University requires no one to live in a residence hall. To be eligible for occupancy in a residence hall, an applicant must be unmarried, accepted as a student at the University and enrolled for a minimum of 12 undergraduate or 6 graduate semester hours of credit at the University by the close of registration period for which housing is requested (6 and 3 respectively for summer sessions). Permission for married and/or part-time students to live in a residence hall must be requested in writing at the time of filing the application. Such applicants should not assume that their requests have been approved until

written acknowledgement is received. If a student ceases to attend classes for any reason, he may be asked to withdraw from the University. He must vacate his residence hall accommodation within 24 hours as a condition of his withdrawal.

HANDICAPPED STUDENT SERVICES

The Handicapped Student Service Program provides specialized support services aimed at helping students have full access to the educational programs, services and activities available at Memphis State University. Services include:

- preregistration planning and orientation
- preferential scheduling and registration
- coordination of modified housing facilities
- attendant referral
- arranging readers, tutors, notetakers, interpreters
- assistance in securing special materials, equipment and adaptive aids
- assistance with wheelchair maintenance
- Handi-Van transportation
- consultation with faculty regarding academic adaptations
- liaison with state rehabilitation agencies.

For more specific information and assistance, all handicapped applicants and students should contact the Director of Handicapped Student Services. Telephone and TTY (901) 454-2880.

VETERANS SERVICES

The Office of Veterans Services provides assistance for eligible veterans and/or dependents who enroll at Memphis State University and who make application for: (1) Programs of Education or Training, (2) VA Tutorial Services, (3) VA Workstudy Positions, or (4) VA Educational Loans. Other assistance includes: Liaison with Veterans Administration Regional Office, Counseling, and counseling referral for personal, family, career, financial, and educational problems.

Anyone who will be using VA Educational assistance (G.I. Bill Benefits) while enrolled at Memphis State University should contact the Office of Veterans Services. They should also be prepared to furnish the following items as application:

1. DD 214 (or other armed forces separation papers) original or copy which has been certified by a Federal VA employee.
2. Copy of Delayed Enlistment Contract.
3. Copies of children's birth certificates.
4. Copy of divorce decree if either vet or spouse has been previously married.
5. VA File number if benefits have been used previously.
6. Transcripts from any prior schools attended.

Advance payment is available for eligible veterans and dependents who plan to enroll on at least a half-time basis. Applications will be accepted in the Veterans Services Office as early as 120 days before the term begins but no later than 45 days prior to the beginning of the term of entry. Generally, the advance pay deadline for the Fall semester is around July 15 while the Spring semester deadline is around November 15. Advance pay checks include an allowance for the month or fraction thereof in which the course begins and the allowance for the following month.

Advance pay checks are mailed to the school for delivery to the student at registration. Initial applicants who do not apply for advance pay may expect their check to be mailed to their home within four to eight weeks after registration.

For VA benefits, generally 12 semester hours constitute a full-time load for undergraduate students; 9 semester hours is full-time for graduate students. The Veterans Administration places restrictions on those who receive veterans educational benefits. Some of these restrictions are: (1) regular class attendance, (2) satisfactory academic progress, and (3) adherence to a specific degree plan.

Only courses that are required for the degree and major may be certified for VA pay. VA will not pay for repeat courses if the grade already earned is accepted by MSU and will fulfill graduation requirements toward the declared degree and major (even if the course was taken at another institution with or without use of the G.I. Bill). VA will not pay for elective courses in excess of those needed to meet graduation requirements.

CERTIFICATION REMINDERS

1. Register with Veterans Services every semester by completing a Veteran Data Sheet and Certification Requirement.
2. Report credit allowed for prior training in cooperation with your advisor by completing the form, Request for Reevaluation of Prior Credit. Forms are available from Veterans Services Office.
3. Inform Veterans Services Office of any changes in: major, and degree pursued, address, marital status, number of dependents claimed.
4. After registering, report immediately all changes in class scheduling including: adds, drops, section changes, cancelled courses, withdrawal.
5. Obtain a degree posting sheet (formal degree plan) from advisor, furnish a copy to the Veterans Services Office and keep a copy for personal file.

Contact the Veterans Services Office for more information on eligibility requirements and monthly pay rates.

ATHLETIC PROGRAMS

The University sponsors men's and women's intercollegiate athletic programs. Policies for intercollegiate athletics are set by the University Committee on Athletics.

The intercollegiate program sponsors teams in football, basketball, baseball, track, golf, tennis, gymnastics and volleyball. These teams compete in a regular schedule with teams from other recognized institutions of the same scholastic level as Memphis State University.

OTHER INFORMATION

Student Conduct and Disciplinary Proceedings

It is assumed that applicants for admission to Memphis State University are mature adults, and every consideration will be shown them as such until, by their own acts, they forfeit the confidence reposed in them. Rules of government and regulations in regard to general conduct are, of course, necessary. The rules and regulations at Memphis State University are of such nature as to secure ready cooperation on the part of students in making them effective. These rules and regulations are outlined in the *Student Handbook*, distributed to all students at the time of initial registration, and every student is required to be knowledgeable of the Code of Conduct and Disciplinary Proceedings and adhere to the stated regulations.

The Student Identification Card

The University issues to each student an identification card which bears his photograph and social security number. The card remains the property of Memphis State University.

Inquiries about student identification cards should be made to the Office of the Assistant Dean of Students. The card, with the current validation decal, is required for the borrowing of library books, admission to or approval to pick up or purchase student tickets to athletic and social events, the sale of used textbooks, and other official purposes. The card is also required to gain admission to the Registration Center each registration period.

If an ID Card is lost or stolen, the student has twenty-four hours to file the proper report with the Assistant Dean of Students and/or the Security Office. In all cases, a student will be required to have a replacement card made. The replacement fee is \$10.00 for a card that has been damaged, stolen, or lost. A student will be charged a \$2.00 fee to make any change in data on his card.

The card, as part of the withdrawal

procedure, must be presented to the proper official before his withdrawal from the University can be considered complete.

Fraudulent use of the ID card will result in disciplinary action. The card is issued to the individual student and must not be loaned to another person for any reason.

Automobiles on Campus

Each person who expects to operate and park any motor vehicle on the campus of Memphis State University must register it in the Security Office and receive an official permit. Permits are valid from September through August.

Limited parking space necessitates close regulation of traffic. Each student is responsible for acquainting himself with the campus traffic and parking regulations, copies of which are available in the Security Office.

Bookstore

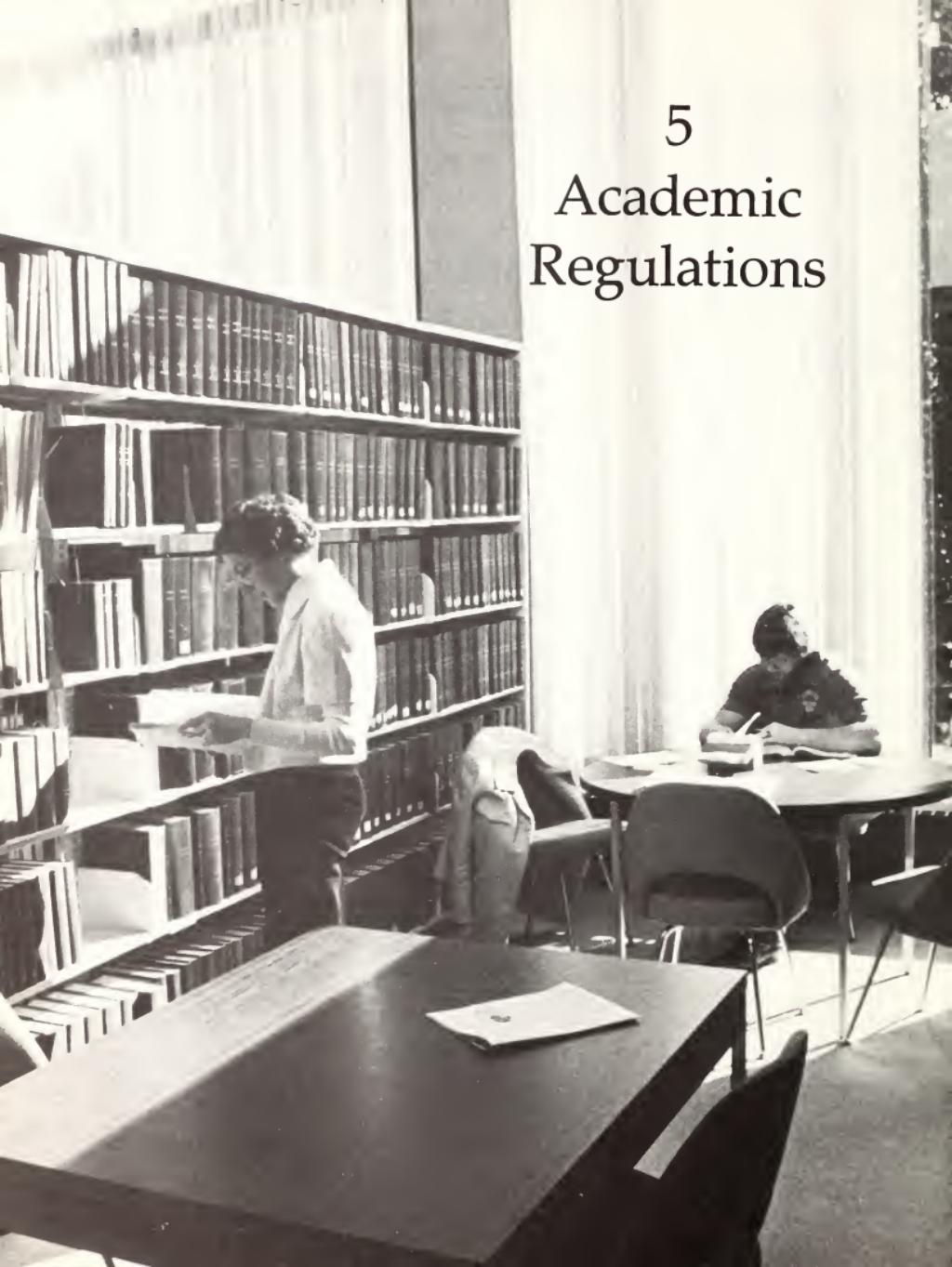
The University Bookstore, located in the University Center, is owned and operated by the University for the convenience of its students, faculty, staff, and their guests. In addition to textbooks and supplies required or recommended for every course in the University, the Bookstore also stocks clothing, cosmetics, notions, physical education uniforms, stationery, rental typewriters, and gift items; it is the only source for purchase of the official Memphis State University class ring.

Post Office

The University Post Office, located on the first floor of Jones Hall, has post office boxes available for rent by students and faculty. Students living in University housing have post office boxes located in these facilities, charges for which are included in the residence hall rent. Student mail should be addressed to the proper post office box number, Memphis State University, Memphis, Tennessee 38152.

National Alumni Association

The Memphis State University Alumni Association is the main communication link to the University for graduates and former students. Emphasizing its role as a service organization, the National Alumni Association sponsors such events as: Women's Day, Tiger Uproars (pep rallies), an international "Travelin' Tigers" tour program, group insurance, and member loan (direct mail loans to alumni). Alumni publications include the *Memphis State Alumni Review* (quarterly magazine sent to all contributors to the Annual Fund, coordinated by the University Development Office) and the *Columns* tabloid, mailed quarterly to all alumni. The National Alumni Association also offers special events for students and sponsors the Student Ambassador Board. The MSU Alumni Center, located on the corner of Normal and Spottsworth streets on campus, contains the offices of the National Alumni Association staff. (901) 454-2701.



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Academic Regulations

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ORIENTATION, ADVISING AND REGISTRATION

The academic year consists of two semesters: the fall semester beginning in late August or early September and ending in December; the spring semester beginning in January and ending in May. A summer session is held between the end of the spring semester and the beginning of the fall semester of the next academic year.

An orientation and academic advising program for all new freshmen is held during the summer preceding fall registration. The sessions are conducted in order to acquaint entering students with various programs of study, general University regulations, and registration procedures. Students are assigned advisors who aid them in selecting appropriate courses. Assistance from the advisor, however, does not relieve the student of the responsibility of studying the *Bulletin himself and fulfilling all of the requirements therein* for his particular goal. It is expected that by no later than the time a student has attained senior standing he will consult with the dean of his college in regard to the fulfilling of requirements for his chosen degree.

The *Schedule of Classes*, published a few weeks before the beginning of each semester and available from the Office of the Dean of Admissions and Records, contains a detailed outline of the registration procedure and course changes and additions made since the publication of the *Bulletin*. Students are urged to study these schedules carefully and to keep them available for immediate reference during the registration period and throughout the semester. All students are expected to register on the dates indicated in the calendar. Although registration is permitted after these dates, a late registration fee is charged, and there is no reduction in other fees.

In no case is credit allowed in any course for which the student is not duly registered and which is not properly entered on his official registration material. Registration is not complete until all fees for the semester have been paid.

APPEALS TO UNIVERSITY POLICY

The University recognizes that in the application of policies to individual situations extenuating circumstances may occur; therefore, the student has a right to appeal University policies. If the student feels that his particular circumstances warrant such an appeal, he must originate the request for appeal in the university office responsible for the administration of the policy.

CLASS ATTENDANCE

Although students at Memphis State University may be engaged in a variety of activities, curricular and extra-curricular, on and off campus, they are expected to give first consideration to their scholastic obligations. When they register for classes, they make a commitment to and assume a responsibility for their academic success. They are expected, therefore, to attend classes promptly and regularly, to participate appropriately in these classes, to seek out all the help which the University makes available to them, to complete all course requirements, and to perform to the best of their abilities.

The importance of prompt and regular class attendance cannot be overemphasized. Although class attendance as such is used in computing grades only under the conditions stated in the following paragraph, students must understand that their academic success will be determined by the way they perform on all measuring instruments — tests, daily quizzes, class participation, in-class essays, class reports, etc. — and that failure to attend and participate in class (or to meet similar responsibilities in laboratories, intern programs, and the like) will undoubtedly affect that performance. Absence from class is not a valid excuse for failure to complete assignments or for tardiness in completing them; permission to make up assignments or to turn them in late can be given only by the teacher of the class upon specific request; students should not assume that such permission is granted routinely.

Class attendance as such is not used in computing grades except in those courses for which teachers request specific exemptions. Such special attendance policies are valid only (1) if the department chairman annually approves them in writing prior to the first class meeting with a copy of that approval forwarded for information to the dean and (2) if a full statement of the policy is presented to all students present at the first and second meetings of the class. In the case of courses which have multiple sections and multiple teachers, the chairman’s approval permits all teachers to use class attendance in computing grades. Lists of exemptions are kept in the dean’s office.

A student who is absent from the final examination without the permission of the teacher incurs a grade of F on the examination and may, depending on the weight of the examination in determining the final grade, incur a grade of F for the course.

Adding and Dropping Courses

After the official registration period is over, the student may make adjustments in his schedule through the process of

adding and/or dropping courses. Courses may be added only during the first five days of classes (three days in the six-week summer term and four days during the extended term). Courses dropped during this same period will not be shown on the student's permanent record. Courses dropped after the period to add classes will be indicated on the record as dropped. A student may drop any course or courses up through the date specified in the University Calendar for that term (The University Calendar is located in the front of this *Bulletin*). Exceptions are made only on the basis of such unusual circumstances as serious personal illness, relocation because of employment, et cetera. A fee is charged for courses added or dropped. See section 3, *Fees and Charges*. To stop attending a class without officially dropping the course incurs the grade of F.

Withdrawal From University

Any student who wishes to officially withdraw from the University must do so in person through the Center for Student Development. The student must complete an application for withdrawal and present for invalidation his student identification card at the time of withdrawal. Failure to officially withdraw will result in the student's receiving grades of F for the courses in which he is enrolled. Students enrolled in evening classes withdraw in the Evening Academic Services Office. Students enrolled in The Graduate School should report their withdrawals to the office of the Dean of The Graduate School.

Withdrawal is not permitted after the date specified in the University Calendar (in the front of this *Bulletin*) for that term (the date on which one-half of the term is completed). Exceptions are made to this policy only in cases of such extreme circumstances as serious personal illness, relocation because of employment, et cetera.

CLASSIFICATION OF STUDENTS

Classification of students is based on the number of credit hours earned as shown in the table below.

Classification Semester Hours

Freshman	0-24
Sophomore	25-54
Junior	55-84
Senior	85 or more
Special	Students not working on a degree

Students who have completed the required number of hours to be classified as juniors but who have not completed their basic requirements in the Lower Division should schedule these uncompleted requirements during the first semester following in which such courses

are available in order to avoid a possible delay in graduation.

Credit Hours and Maximum Load

The unit of credit at Memphis State University is the semester hour; a semester hour is defined as the credit earned for the successful completion of one hour per week in class for one semester; or two hours per week of laboratory for one semester. (A course which gives three semester hours credit will normally meet for three lecture or recitation hours per week; or for two lecture or recitation hours and two laboratory hours per week; or for some other combination of these.) Each lecture hour presupposes a minimum of two hours preparation on the part of the student.

The minimum credit hour load for classification as a full-time student and the maximum loads are found in the table below. The maximum credit hour load includes all course enrollments for any term, both at Memphis State University and any concurrent enrollment at other institutions. It does not include credit by examination. No student is permitted to enroll for correspondence or extension courses while he is carrying a maximum credit hour load.

ACADEMIC FULL-TIME CLASSIFICATION AND MAXIMUM LOAD

Term	Minimum Hours	Maximum Hours
Fall or Spring	12	*18
First or Second Summer	4	8
Extended Summer only	8	16
Extended and First or Second	8	11
Extended and First and Second	9	16

*This includes neither the required physical education activity course nor Applied Music Workshop (MUAP 1000). A student who has a B (3.0) average or better for a semester may, with the permission of the dean of his college, schedule a maximum of twenty-one hours for the following semester.

NOTE: ID card validation of full-time for student activity purposes is based on a minimum of six credit hours per semester and does not necessarily constitute a full-time academic load.

The maximum course load for any combination of concurrent summer terms is eleven semester hours. The student's course load for the entire summer session may not exceed 16 semester hours. (This may differ from requirements for the Veterans' Administration. Questions should be directed to the Coordinator of Veterans' Services.)

SCHOLASTIC STANDARDS

Grades and Quality Points

GRADES

At the end of each semester or summer term, instructors report to the Records

Office the standing of all students in their classes. The grade of a student in any course is determined by his class standing and his examination, combined in such proportion as the instructor in charge of the course may decide. Class standing in any course is determined by the quality of the student's work, and the thoroughness of his preparation.

The instructor's evaluation of the student's work is expressed by the following grades which are converted to quality points for the purpose of averaging grades.

Grade	Quality Points	Grade	Quality Points
A, Excellent	4	T (See below)	0
B, Good	3	CR, Credit	0
C, Satisfactory	2	DP, Drop	0
D, Poor	1	WF, Withdraw	0
F, Failure	0	AD, Audit	0
I, Incomplete	0	*S. Satisfactory *U. Unsatisfactory	0

*IP (In Progress) is sometimes given for courses graded on S/U basis. The S/U grade is limited to certain types of courses such as practicums, practical teaching, etc. It is only awarded for those undergraduate courses for which it is indicated in the course descriptions.

All courses for which the student is registered are recorded as passed (with a letter grade), "T", failed, dropped, withdrew, credit, satisfactory, unsatisfactory, or incomplete. In no case is credit allowed in any course for which the student is not duly registered and which is not properly entered on his official registration card.

Grade of Incomplete

The grade of I (incomplete) indicates that the student has not completed the course for some unavoidable reason that is acceptable to his instructor. Unless the student completes the requirements for removal of "I" within forty-five days from the end of the semester or summer session in which it was received, the grade of "I" will be changed to an F, regardless of whether the student is enrolled or not. Extensions may be granted if the instructor's absence from the campus makes it impossible for the student to remove the incomplete. Grades of incomplete earned during the student's semester of proposed graduation will delay the student's graduation until the end of the semester during which the incomplete is removed.

All grades, with the exception of "I", when reported, can be changed only by the instructor who reported them and then only after approval by the faculty Committee on Entrance and Credits. There is a Grade Appeals procedure described below.

"T" Grade

In order that students may be permitted to complete independent studies courses in variable time periods which might exceed a regular enrollment period, the "T" grade has been introduced.

The following procedure governs the use of the "T" grade:

1. Prior to the registration period, the professor obtains approval of his chairman and dean to use the "T" grade in a course(s).
2. The dean notifies the Records Office of courses for which the "T" grade may be awarded.
3. At the end of the regular term, the faculty member has the following options:
 - a. Award grades A-F.
 - b. Award an "I" grade if the faculty member feels that the work can be completed in 45 days. (If an "I" grade is awarded, a runner with the student's name on it will be sent to the faculty member at the end of 45 days. The faculty member must record either an A-F or the "T" grade to prevent an automatic assignment of "F".)
 - c. Award a "P" grade. If the "T" grade is awarded, the student must re-register for the course in order to earn credit. The "T" grade is not used in the computation of QPA.

Repetition of Courses

A student may repeat most courses in an attempt to improve the grade previously earned. There are some courses which may not be repeated for this purpose. Information concerning these courses may be obtained from the office of the chairman of the department in which the course is offered.

A student may not attempt the same course more than three times for the purpose of obtaining a passing grade or higher grade. Exceptions to this limitation may be made by the dean of the college from which the student intends to graduate. These exceptions must be approved prior to the student's registration for the fourth and any subsequent attempts of the same course.

The student's quality point average will be computed as follows:

Attempt	Grade(s) Included In Computation
1st	Original grade earned
2nd	Only grade in 2nd attempt
3rd	Only grade in 3rd attempt
4th and subsequent	Grade earned in 3rd attempt averaged with grade(s) earned in ALL subsequent attempts

The record will continue to reflect all grades earned in the same course.

Audit Courses

Students who are registered for one or more classes at Memphis State University may also register to audit a course with the approval of their advisor and the chairman of the department in which the course will be offered. Students enrolled for credit courses may take no more than one audit course per semester.

Auditors are not required to prepare

lessons or papers, or take examinations. They are not to take part in class discussions or laboratory or field work. A student auditing a course will receive "audit" on his transcript only if in the judgment of the instructor he has attended a sufficient number of classes to deserve the notation on the transcript. Faculty will base their decisions for awarding "audit" only on attendance as the student is not allowed by policy to participate in any other way.

Persons who are not enrolled for credit courses may register for a maximum of three audit courses with the approval of the Dean of Admissions and Records and the department chairman. These persons must have graduated from high school or be 18 years of age or older. A student may not change from a grade point basis to audit or from audit to a grade point basis after the last day to add classes for that term. Fees for audits will be assessed on the same basis as fees for credit courses.

Senior Citizen/Handicapped Audit and Credit Courses

Persons suffering from a permanent disability which totally incapacitates such persons from working at an occupation which brings them an income, and persons sixty (60) years of age or older during the academic semester in which such persons begin classes, and who are domiciled in Tennessee, may audit courses at Memphis State without paying tuition charges, maintenance fees, student activity fees, or registration fees. Admission to AUDIT will be limited on an individual classroom basis according to space availability.

Any person who is totally disabled, and persons sixty-five (65) years of age or older during the semester in which such persons begin classes, and who are domiciled in Tennessee, may enroll for courses for credit at the cost of \$17.50 per undergraduate credit hours and \$24 per graduate credit hour, not to exceed \$75 per semester. The University Health Services shall examine certification of permanent disability (not the applicant) and determine the eligibility of the applicant under this legislation.

Inquiries concerning these programs may be addressed to the Records Office, Administration Building, Room 115, or telephone 454-2671.

Credit-No-Credit Courses

The University, wishing to encourage mature students to broaden their range of interest without jeopardizing their grades, allows any student who has earned at least 60 semester hours with a minimum grade point average of 3.0 to enroll in credit-no-credit courses as determined by his college. The student is limited to one course per term and may not accumulate more than 12 semester hours on a credit-no-credit basis. (In most cases, Physical Education Activity

courses are exempted from these requirements. See section 6, *Graduation from the University*.) A student who transfers from one college to another should be aware that credit-no-credit hours may be acceptable in one and not in another. A student may apply to take, on a credit-no-credit basis, a course which has previously been taken for a grade. In every instance, approval to register for a course on a credit-no-credit basis must be obtained from the advisor and the dean of the student's degree granting college. Credit hours earned on a credit-no-credit basis will be accepted toward degrees within the following limitations:

The College of Arts and Sciences accepts hours earned on a credit-no-credit basis in any course which is not required for the student's degree.

The Fogelman College of Business and Economics accepts hours earned on a credit-no-credit basis only in courses which are designated as electives in the student's degree program.

The College of Communication and Fine Arts accepts hours earned on a credit-no-credit basis in any course which is not required for the student's major.

The College of Education accepts hours earned on a credit-no-credit basis in any course which is not required for the student's major, professional education requirements and endorsement requirements.

The College of Engineering accepts hours earned on a credit-no-credit basis in any course which is not specifically required for the student's degree.

The University College accepts hours earned on a credit-no-credit basis in any course not required for a student's *Coordinated Study Program*.

A student who registers for a course on a credit-no-credit basis may change the registration to a letter grade-quality point basis only during the add period, and a student who registers for a course on a letter grade-quality point basis may change the registration to a credit-no-credit basis only during the add period. A student making such a change will be charged as if he were dropping and adding a course. The student who successfully completes a credit-no-credit course will receive the appropriate number of hours as credit toward his graduation. These hours will not be used in the computation of his quality point average.

Student Grade Appeal Procedure

This appeal procedure is designed to provide any undergraduate or graduate student at Memphis State University with a clearly defined avenue for appealing the assignment of a course grade which he believes was based on prejudice, discrimination, arbitrary or capricious action, or other reasons not related to academic performance. In all cases the complaining student shall have the burden of proof with respect to the allegations in his complaint and in his request for a hearing. If any party fails to pursue timely any

step of the procedure, the disposition of the student's complaint made in the last previous step shall be final. The procedure will be terminated at the level at which the instructor and the student are brought into agreement on the appealed grade. All correspondence and records will be retained in the office in which the complaint is finally resolved.

Step 1 The student shall first consult with the instructor in an effort to provide a satisfactory resolution of his complaint. In the event the student cannot schedule a meeting with the instructor, he may contact the department chairman who will then mediate between the student and the instructor. The only exception to this procedure is the case where the instructor has been terminated by the University or is unavailable so that it is impossible to complete Step 1 within the allotted forty-five days. In this case the student may proceed directly to Step 2.

Step 2 If the complaint is not resolved in Step 1, the student may present his complaint in writing to the chairman of the department in which the course was offered within forty-five days from the end of the term during which the grade was received. For the purposes of the grade appeal procedure, all summer sessions, including the first and second summer term will constitute a single term. (Students enrolled in courses during any summer term shall have forty-five days following the end of the last summer term in which to file a grade appeal.) The department chairman will attempt to resolve the complaint in consultation with the instructor and the student within a fifteen-day period dating from the formal presentation of the written complaint. The department chairman may, at his discretion, consult with the faculty of the department.

If the department chairman was the instructor of the course involved in the complaint or if for any reason the chairman disqualifies himself, the written complaint of the student shall be submitted to the dean of the college.

The student's grade may be changed in Step 2 of the appeal procedure by the written consent of the instructor and the student.

Step 3 If the complaint cannot be resolved at the level of Step 2 within the prescribed fifteen-day time period, the student within five days following the end of such period, may request in writing that the chairman forward his complaint to the dean. The chairman must forward the student's complaint to the dean within five days. The chairman will provide the dean with a copy of all correspondence and records pertaining to the complaint.

The dean may utilize any resources available to his office to resolve the grade conflict within a fifteen-day period. The dean's decision in this matter will be formally announced at a meeting of the dean, the chairman, the instructor, and the student. If the dean and chairman are in agreement that the grade should be changed, either raised or lowered, the dean shall be empowered to change the grade without the instructor's consent. Otherwise the grade shall remain as recorded.

Either the student or the instructor may appeal the decision made under Step 3 within fifteen days by filing a written request for a hearing before the University Grade Appeals Committee. In the event of such an appeal the decision shall be stayed pending the completion of the procedure in Step 4. The dean must be provided a copy of the hearing request.

Step 4 The written request for a hearing before the University Grade Appeals Committee should state the factual basis for the appeal of the dean's decision. If the committee finds the student's or the instructor's request merits a hearing, the committee shall notify the student, the instructor, the chairman and the date of the time and location of the hearing. If the committee finds that the request does not merit a hearing, the student and the instructor shall be so notified.

The University Grade Appeals Committee shall function as a review board. Based on its appeal review process, the committee shall make the final decision unless there is an appeal of the committee's decision, by either party, to the Vice President for Academic Affairs for final determination. The committee shall have the power to allow the assigned grade to stand or to raise or lower the assigned grade. Its decision must be formally announced to all parties. The time schedule allotted for completion of action by the committee shall be fifteen days.

The University Grade Appeals Committee shall be composed of seven members and seven alternates

constituted as follows:

A chairman designated by the Vice President for Academic Affairs, a faculty member, an alternate designated by the deans of the college involved, two faculty members and two alternates elected by the Academic Senate, three students and three alternates selected through the Student Government Association.

Although the primary responsibility of the committee is to review appeals, the committee will report any obvious discriminatory or capricious conduct on the part of either the student or the instructor to the appropriate Vice President for his consideration and action.

QUALITY POINTS

In computing a student's scholarship ratio, or quality point average, all courses attempted are included except credit-no-credit, audit, incomplete, and satisfactory-unsatisfactory courses and "T" grades. As an example: a student carrying five three-semester-hour courses for a total of 15 semester hours makes the following grades: A, B, C, T, F; he has thus accumulated quality points in the amount of 12, 9, 6, 0, 0, for a total of 27. In computing his quality point average, the number of hours attempted (except "T" grade (12) is divided into the quality points earned (27) for an average of 2.25. **Graduation:** A minimum of 2.0 quality point average on all work attempted is required for graduation.

Academic Fresh Start

An ACADEMIC FRESH START allowing calculation of quality point average and credit hours toward graduation to be based only on work done after returning to college is provided for undergraduate students who have gained maturity through extended experience outside higher education institutions and have demonstrated better than average academic performance following their return. Requirements to be satisfied by a student requesting an Academic Fresh Start toward a baccalaureate degree are as follow:

1. Separation from all academic institutions for at least seven years.
2. After returning to college, completion of at least 36 semester hours of earned graded course work prior to application for ACADEMIC FRESH START.
3. QPA of at least 2.5 for all work attempted after returning to college and at the time of application.
4. Formal application to the dean of the student's college, requesting that an ACADEMIC FRESH START be granted and describing an academic plan which may include the declaration of a major.

Upon approval of the college dean, the student will be granted an Academic Fresh Start. It may be granted once. The student's permanent record will remain a record of *all* work; however, the student will forfeit the use for degree purposes at Memphis State any college or university credit earned prior to the seven-year separation indicated above. The date of the fresh start will coincide with the date of re-entry following prolonged separation, and the permanent record will note that a fresh start was made and the date of the fresh start. The record will also carry the notation, "QPA and credit

totals are based only on work beginning with that date."

ACADEMIC STATUS AND RETENTION

At Memphis State University, the academic status of a student is denoted by one of three conditions:

- (1) GOOD STANDING
- (2) ACADEMIC PROBATION
- (3) ACADEMIC SUSPENSION

Official notification of academic status is by means of the grade report processed to each student at the end of the regular semester or summer session. The academic status of probation or suspension will be stated at the end of the report of grades. Policies and procedures related to each of these conditions are outlined in the following comments.

Good Standing

A student is in good standing so long as his quality point average is equal to the minimum cumulative QPA required on the sliding retention scale as defined in this policy statement. The term *good standing* indicates only that the student is meeting the minimum standard for retention in the University. However, in order to meet graduation requirements, the student must have a cumulative QPA of 2.0. Any time that a student's cumulative QPA falls below this 2.0, he receives a warning on his grade report and he should consult immediately with his academic advisor.

Academic Probation

A student will be placed on academic probation at the completion of any regular semester or summer session when his cumulative QPA falls below the following:

HOURS ATTEMPTED	MINIMUM QPA
14.99 or less	No minimum
15.00 - 29.99	1.40
30.00 - 50.99	1.70
51.00 - 67.99	1.90
68.00 and above	2.00

A student on academic probation who withdraws from the University during the first probationary semester will be "continued on academic probation." Withdrawal by such a student from any subsequent probationary semester will be treated as an academic suspension requiring clearance from the Academic Status and Retention Office for any future registration.

Academic Suspension

A student on academic probation who, at the end of his next term of enrollment, fails to raise his QPA to at least the required minimum in the Sliding Scale Retention Policy above will be suspended. There is one exception to this policy: A student on academic probation will not be suspended at the end of any

semester or summer session during which he earns a term average of 2.00.

A student who incurs a first suspension must remain out of the University a minimum of one regular term (i.e., fall or spring). A student suspended for the first time at the completion of the spring semester will not be allowed to enroll in the subsequent fall semester, after remaining out the summer session. A student who incurs a second suspension must remain out of the University one full calendar year. Three or more suspensions result in an indefinite suspension. If there is adequate evidence of the student's ability, interest, maturity and motivation, he may be reinstated by the Academic Status and Retention Office or the Retention Appeals Committee. The office is located in Room 167 of the Administration Building.

Recognition for Academic Performance

There are several means available by which students may obtain recognition for outstanding academic performance. In addition to those listed below, there are other honors and awards listed in section 4, *Student Life and Financial Aid*, and in the descriptions of the various honors programs.

THE DEAN'S LIST

The Dean's List is composed of those students who complete a minimum of fifteen semester hours with a quality point average of at least 3.4 for the semester.

GRADUATION WITH DISTINCTION

Students who meet the requirements described below are eligible to graduate *cum laude*, *magna cum laude*, or *summa cum laude*:

1. Fulfillment of graduation requirements
2. Completion of a minimum of fifty (50) graded semester hours at Memphis State prior to graduation
3. Final cumulative quality point averages as follow:

<i>cum laude</i>	3.2500 — 3.4999
<i>magna cum laude</i>	3.5000 — 3.7999
<i>summa cum laude</i>	3.8000 — 4.0000

*Recognition of graduation with distinction at commencement ceremony will be based on completion of a minimum of forty-five (45) graded semester hours at Memphis State prior to the final semester. (During the final semester, the student must also be enrolled for a sufficient number of hours to complete the required minimum of fifty.) This recognition is not an annual conferral of distinction.

A transfer student, in order to be eligible must have made the required average on all work taken at Memphis State University and must, in addition, have an over-all average which meets the honors requirements above. In no instance may

the QPA used for determining graduation with distinction be higher than that earned on courses taken at Memphis State University.

A student who already holds a baccalaureate degree is eligible for these distinctions if the requirements above are met and if, within the hours presented to fulfill the requirements for the second degree, at least forty-five additional graded hours have been taken at Memphis State University subsequent to the award of the first degree. (These hours would be for new courses, not courses repeated for a higher grade.) The QPA used for determination of distinction for the second degree will be calculated from all undergraduate courses taken.

Either the complete set of requirements governing graduation with distinction in this 1981-82 *Bulletin* or the complete set in the *Bulletin* governing the degree requirements for the student's graduation may be used to determine honors.

HONOR SOCIETIES

Alpha Epsilon Delta, international pre-medical honor society

Alpha Kappa Delta, the national honorary society in sociology

Alpha Lambda Delta, a national honor society for freshman students

Beta Beta Beta, national honor society in biology

Beta Gamma Sigma, the national honor society for business majors

Chi Eta Phi, the national science and mathematics honorary society

Gamma Theta Upsilon, a national honorary society for geography students

Kappa Delta Pi, a national honor society in education

Omicron Delta Kappa, the National Leadership and Scholarship Honor Society

Phi Eta Sigma, a national freshman honor society

Phi Kappa Phi, a national interdisciplinary honor society

Pi Sigma Alpha, the national honor society in political science

Psi Chi, the national honor society in psychology

Sigma Delta Pi, the national Spanish honor society

Tau Beta Pi, a national engineering academic honor society

ADDITIONAL MEANS OF EARNING CREDIT

Advanced Placement Credit

Memphis State University participates in the Advanced Placement Program of the College Entrance Examination Board. A maximum of 24 semester hours may be given to qualified students on the basis of the examinations conducted by the

Board. To be eligible for credit, an entering freshman must place in group three, four, or five of the CEEB Advanced Placement Tests. Information pertaining to approved scores and credit to be awarded may be obtained from the Transfer Affairs section of the Office of Admissions and Records.

Transfer Credit

In order for completed additional course work to be transferred from another university and recorded on the student's permanent record, the student must request that an evaluation of the additional course work be completed by the Transfer Affairs section of the Admissions Office. After the student has been admitted as a regular undergraduate, whether he is a beginning freshman or a transfer student, it is recommended that he consult with his advisor or the Transfer Affairs section of the Admissions Office if he anticipates enrolling at another college or university for the purpose of transferring credit to Memphis State University.

The maximum credit hour load allowed for any term includes all course enrollments both at Memphis State University and any concurrent enrollment at other institutions. (See "Credit Hours and Maximum Load.")

Correspondence or Extension Credit

Memphis State University accepts a limited number of credits earned by correspondence and/or extension, provided that such credits are taken from an institution which is a member of the University Extension Association, or the appropriate regional accrediting association. Memphis State University offers some work by extension but none by correspondence.

Prior to a student's initial registration at Memphis State University as a regular undergraduate (for official definition of "regular undergraduate," see section 2, *Admission to the University*), the Office of the Dean of Admissions and Records will, at the time the student applies for admission, determine the acceptability of extension and/or correspondence credits earned at other institutions. After the student has been admitted as a regular undergraduate, whether he is a beginning freshman or a transfer student, he will not be given credit applicable to any Memphis State University degree for subsequent correspondence or extension courses unless he has obtained, prior to his enrollment in such courses, written permission from the dean of the college in which he is majoring.

No student is permitted to enroll for correspondence or extension courses while he is carrying a maximum load at Memphis State University. Not more than one-fourth of the semester hours applied on the bachelor's degrees may be earned by correspondence or extension or a combination of the two. (This restriction

tion does not apply to degree programs of the University College.)

A student who has completed thirty-three of the last sixty-six hours required residence and who lacks *no more* than four semester hours toward completion of degree requirements may earn these additional credits by acceptable correspondence or extension work, or by residence at another approved institution. (For details of residence requirements, see section 6, *Graduation from the University*.)

University Credit by Examination

Students may not take an examination for credit in any course previously taken for credit. Students may, however, take an examination for credit in courses which were audited or in courses which are at a lower level than a course which was taken for credit.

CLEP EXAMINATIONS

CLEP is a national program of credit-by-examination, sponsored by the College Entrance Examination Board. It offers students the opportunity to obtain recognition for college-level achievement. Some departments accept CLEP subject area examination credits as equivalent to departmental courses. No credit will be awarded for CLEP general examinations. Information on courses for which CLEP credit is available, along with information of fees charged, is available from the Academic Counseling Unit, the college level advisors, or the specific departments offering CLEP credits.

DEPARTMENTAL EXAMINATIONS

Almost all courses in the undergraduate curricula, except for those of laboratory, research, and performance variety, are available for credit by examination.

Students who believe they have already mastered the material of a particular course offered at Memphis State may take a departmentally administered examination for credit in that course. Students should consult the department chairman to make application and to obtain information concerning the courses offered.

The following regulations govern the granting of credit by examination:

1. Any student who has been admitted to Memphis State University—full-time, part-time, or non-degree—making application may take an examination for credit. A student who has been admitted but has not yet registered for courses at Memphis State University will have any credit earned by examination posted to the permanent record after enrollment. Any student (other than first-time freshmen) must have a 2.0 QPA to apply for credit by examination.
2. Permission to take a credit examination must be obtained from the chairman of the department in which credit is sought and from the dean of the college in which the student is seeking a degree. When permission is granted, after payment of the cost of the examination, the Dean of Admissions and Records will issue an official permit for the examination.
3. The form of the examination, the method of administering it, and the time of examination are left to the discretion of college departments.
4. To receive credit, the student's examination grade should be a grade equivalent of at least a C. There are no restrictions governing the number of credit hours which may be earned through credit by examination. Credit is indicated on the student's record as Cr.

CREDIT BY PLACEMENT EXAMINATION

In departments in which placement examinations are given, a student may elect to receive credit for certain sequential courses numbered lower than the course in which the student was placed.

1. A student may take the proficiency test, which is given at the beginning of each

semester, in order to best determine the initial course in which he should be placed. A student taking the proficiency test may apply immediately for the hours of credit warranted by the test score. He must make written application to the chairman of the department and make payment of appropriate fees for such credit to be recorded.

2. A student may enroll in a course at the level for which he feels previous training qualifies him. In the Department of Foreign Languages, recording of credit for the lower numbered course may be requested by the student upon completion of the course in which he was enrolled and is contingent upon his having earned a grade of C or higher in the course. *Written application to the chairman of the department and payment of appropriate fees is required for such credits to be recorded.*

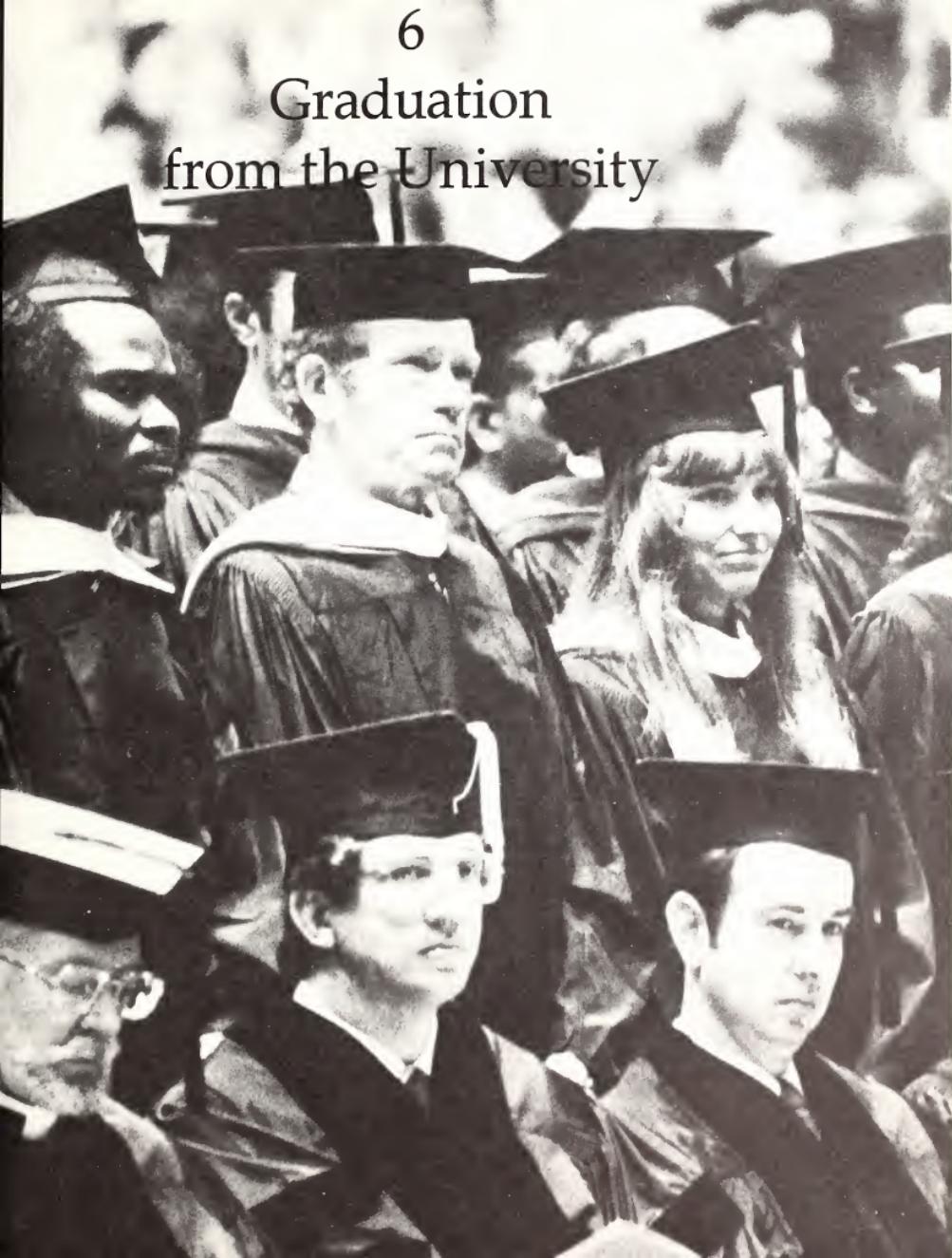
There is no fee charged for taking placement examinations; however, there is a fee for all placement credits which are recorded. For information on the fees, see section 3, *Fees and Charges*.

University Credit for Experiential Learning

Students seeking degrees in the College of Communication and Fine Arts, the Herff College of Engineering (Trade and Industrial Vocational Technical Education majors only), and the University College may be granted credit for college-level knowledge and understanding gained from work experience, life experience, or for certain non-traditional instruction. The student who wishes an assessment of such learning prepares a detailed and documented portfolio of those learning experiences which are to be evaluated.

Assessment by portfolio is reserved for knowledge and competencies which do not readily fit into the credit by examination procedures described above. More detailed information about procedures may be obtained from the individual colleges. For fee information, see Section 3, *Fees and Charges*.

6
Graduation
from the University



DEGREES OFFERED

The degrees conferred by Memphis State University are offered through the College of Arts and Sciences, The Fogelman College of Business and Economics, The College of Communication and Fine Arts, The College of Education, The Herff College of Engineering, The University College, The Department of Nursing, The Cecil C. Humphreys School of Law, and The Graduate School, as follow:

The College of Arts and Sciences: *Bachelor of Arts, Bachelor of Science, Bachelor of Science in Chemistry, Bachelor of Science in Medical Technology.*

The Fogelman College of Business and Economics: *Bachelor of Business Administration*

The College of Communication and Fine Arts: *Bachelor of Fine Arts, Bachelor of Arts, Bachelor of Music.*

The College of Education: *Bachelor of Science in Education, Bachelor of Science in Home Economics, Bachelor of Music Education.*

The Herff College of Engineering: *Bachelor of Science in Civil Engineering, Bachelor of Science in Electrical Engineering, Bachelor of Science in Mechanical Engineering, Bachelor of Science in Engineering Technology, Bachelor of Science in Technology, Bachelor of Science in Geology.*

The University College: *Bachelor of Liberal Studies, Bachelor of Professional Studies.*

The Graduate School: *Doctor of Philosophy, Doctor of Education, Doctor of Musical Arts, Doctor of Business Administration, Specialist in Education, Master of Arts, Master of Arts in Teaching, Master of Business Administration, Master of City and Regional Planning, Master of Education, Master of Fine Arts, Master of Music, Master of Public Administration, Master of Science.*

The Cecil C. Humphreys School of Law: *Juris Doctor.*

The Department of Nursing: *Bachelor of Science in Nursing.*

Courses required for all baccalaureate degrees are outlined in the section which follows; specific requirements for the individual degrees will be found in section 7, *Colleges and Degree Programs*. Requirements for the Juris Doctor degree will be found in the *Bulletin* of The School of Law; requirements for graduate degrees will be found in the *Bulletin* of The Graduate School.

GENERAL REQUIREMENTS

The following have been established as minimum requirements by University for all undergraduate degrees offered. In addition, the student must meet the

requirements for his specific degree as established by the college or department in which it is offered. A minimum of 132 semester hours is required for all degrees. In some degrees and majors, the courses which may be used to meet the University requirements below are specified. The assistance of an advisor should be sought to determine which courses will meet degree requirements.

1. English

(12 semester hours.) All candidates for graduation at Memphis State University are required to complete English 1101 and 1102, or their equivalents, and any two of the following: English 2101, 2102, 2103, 2104, 2105, 2106 or their equivalents. These two sequences must be scheduled in consecutive semesters through the freshman and sophomore years or until completed. English 1101 and 1102 must be taken in sequence; no credit will be allowed for English 1102 until 1101 has been completed successfully.

Every student at Memphis State is required to demonstrate his proficiency in English by making a grade of C or better in English 1101 and 1102 (or their equivalents).

2. History

(6 semester hours.) All students must complete successfully History 2601 and 2602, or their equivalents. (This requirement is waived for engineering students and students enrolled in the University College except for those who did not earn at least one unit in American History in high school.) The State requires that students who did not earn one unit in American History in high school take it during their first or second year at the University.

Those students who use the G.E.D. rather than high school graduation for admission to the University will be considered as having the equivalent of a Tennessee high school diploma and, thus, to have had the equivalent of American History in high school. This does not mean that a student already admitted to Memphis State may then take the G.E.D. as an exam for credit in American History.

3. Humanities

In addition to the 6 semester hours of literature (see English), 3 semester hours of humanities are required of all students. Courses which fulfill this requirement are specified by the college in which the student is enrolled for a degree.

4. Mathematics

(3 semester hours.) All students must successfully complete a minimum of three semester credits in mathematics or Philosophy 1611.

5. Science

(6 semester hours.) All students must complete successfully a minimum of six semester credits in a natural, physical, or engineering science.

6. Physical Education

Two semesters of physical education activity courses are required of all regular undergraduate students during the first four semesters in the University. The regular undergraduate student who is part-time or who is taking the majority of his hours in the evening is not required to take the courses during the first four semesters but is encouraged to schedule these courses as early as possible during his college residency. The student may select the activity courses of his choice from the Department of Health, Physical Education and Recreation, or any activity course with the prefix DANC offered by the Department of Theatre and Communication Arts. Any student except those with a major or minor in Physical Education has the option of taking these activity courses for a letter grade or on a credit/no credit basis.

A student unable, for medical or other reasons, to take regular physical education is required to register for an adaptive class, or otherwise follow recommendations of the Chairman of the Department of Health, Physical Education and Recreation.

A student may reduce the number of required physical education credits by the number of credits in Air Force ROTC or Army ROTC completed with a passing grade. Two semester hours of physical education may be waived for students who earn two semester hours as members of the Memphis State University Marching Band. Band members are required to take a minimum of one semester of physical education and may not receive waivers for both band and ROTC.

Only students in the following programs may apply more than 8 semester hours of physical education to the minimum degree requirement of 132 semester hours (see specific college limitations): Physical Education major or minor, Recreation major, B.F.A. Theatre major with a concentration in Performance or Dance, B.A. Theatre major, Theatre or Dance minor. A veteran receiving as many as six semester hours of health and physical education for service experience may apply two extra credit hours toward the minimum of 132 semester hours required for graduation.

7. Quality Point Average

To receive a bachelor's degree from any of the colleges in the University, a student must have a quality point average of at least 2.000 (i.e., two quality points for every semester hour attempted); If for any reason a student offers more than 132 semester hours credit for graduation, the ratio of two quality points to one semester hour of credit must be maintained. To attain this standard the candidate must have a C average on all courses attempted in the University. Students with transfer credit are required to maintain an average of C on all courses taken at Memphis State University.

8. Residence Requirements

A student will satisfy residence requirements for graduation by completing, at Memphis State University, 33 of the final 66 semester hours which are required for his degree. (A student transferring credits from a two-year collegiate institution must complete, as a requirement for the baccalaureate degree, a minimum of six semester hours in an accredited senior institution.) In addition, the student must meet the residence requirements for his specific degree as established by the college in which it is offered. Exceptions to residence requirements can be authorized by the appropriate dean.

Residence requirements for specific degrees within each college may be found in section 7, *Colleges and Degree Programs*. For more details, the student should inquire in the office of the dean of the appropriate college.

9. Testing as a Prerequisite for Graduation

Any or all students may be required to take one or more tests designed to measure general education achievement and/or achievement in selected major areas as a prerequisite to graduation, for the purpose of evaluation of academic programs. Unless otherwise provided for any individual program, no minimum score or level of achievement is required for graduation. Participation in testing may be required for all students, for students in selected programs, and for students selected on a sample basis.

PRE-PROFESSIONAL DEGREE PROGRAM

A student completing specified undergraduate work before entering medical, dental, pharmacy, or law school may, after providing evidence of satisfactory completion of the first year of professional study, receive a baccalaureate degree from Memphis State University. The following provisions must be met *before enrollment in the professional school*:

1. The candidate must complete a minimum of 99 semester hours of pre-professional coursework; at least 24 semester hours of this coursework must be numbered above 2999.

2. The last two semesters of pre-professional coursework must be done at Memphis State University.

3. The candidate must meet all lower division requirements for the given baccalaureate degree.

4. The candidate must complete a minimum of 24 semester hours in a major area; at least 6 of these hours must be taken in residence at Memphis State University.

5. Formal application for the Memphis State University degree must be made to the dean of the college in which the candidate is enrolled. The dean must also approve in writing the choice of professional school.

a. Minimum entrance requirements to the professional school must be 60 semester hours of undergraduate work.

b. The professional school must be accredited by the appropriate recognized national association.

The candidate in the pre-professional degree program should notify the dean of his college of his intentions no later than the beginning of his sophomore year and should, with the guidance of his advisor, plan his program at that time.

REQUIREMENTS FOR TEACHER CERTIFICATION

An undergraduate student can receive certification to teach in the elementary or secondary schools of Tennessee by completing all degree requirements in one of the following programs:

1. For programs leading to full certification in all areas except secondary, the student must enroll in the College of Education. These programs will lead to a Bachelor of Science in Education degree.

2. For programs leading to full certification at the secondary level, the student may enroll either (a) in the College of Education or (b) in the College that offers a major in a specific subject for which certification is desired.

a. **College of Education:** The student must complete one or more endorsement areas and all other degree requirements outlined for the Bachelor of Science in Education. Such a program will lead to a Bachelor of Science in Education degree or a Bachelor of Music Education degree.

b. **Other Colleges:** The student must complete the major program and all degree requirements of the college in which he is officially enrolled. In addition, the student must complete a minor in Secondary Education, consisting of General Education (45 semester hours), Professional Education (30-33 semester hours) and a major endorsement in one specific subject. The requirements are listed in Sections I, II, and V of the description of the Bachelor of Science in Education degree. Such a program will lead to a degree designated by the college in which the degree is taken.

A student in any of the programs described above must (1) file an application to the teacher education program in Room 215, College of Education; (2) fulfill the requirements and application proce-

dures for the student teaching program; (3) register in the Teacher Certification and Placement Office, and (4) have a cumulative QPA in all courses of at least 2.25 and a minimum QPA of 2.25 in all Professional Education courses, required or elective, and in the endorsement area.

Graduate, special, and transfer students who wish certification should confer with the Director of Certification concerning their individual requirements, particularly the credit to be allowed on courses taken elsewhere or at an earlier time.

BULLETIN APPLICABILITY

The degree requirements published in the undergraduate catalog issue of the Memphis State University *Bulletin* are valid for seven years from the beginning of the academic year to which the bulletin applies. A student may complete the requirements for his initial degree under the provisions of any valid MSU bulletin provided the effective date of that bulletin is not earlier than his initial admission to MSU or some other accredited institution of higher learning. (This issue of the bulletin is valid through summer of 1989).

SECOND BACHELOR'S DEGREE

A student who has completed the requirements for one bachelor's degree from Memphis State University may receive a second bachelor's degree upon the completion of the curriculum prescribed in the current bulletin or any other valid bulletin approved by the appropriate degree-granting college. The two degrees may be conferred simultaneously or subsequently. Students who are seeking a second bachelor's degree and who have earned the initial bachelor's degree from another institution are subject to all bulletin regulations applicable to transfer students.

If a student completes the requirements from a valid bulletin for an additional major for a degree previously earned at Memphis State University, that major may be posted on the student's record if the student applies for the additional major through the appropriate dean's office.



7

Colleges and Degree Programs

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The College of Arts and Sciences

JOHN H. WAKELEY, Ph.D., *Dean*

Room 217, 219, Mitchell Hall

ACADEMIC PROGRAMS

Department	Major	Concentration Within Major	Degree Offered
Anthropology	Anthropology		Bachelor of Arts (B.A.) Bachelor of Science (B.S.)
Biology	Biology	(1) Botany (2) Microbiology (3) Invertebrate Zoology/Entomology (4) Vertebrate Zoology	Bachelor of Arts (B.A.) Bachelor of Science (B.S.)
Chemistry	Chemistry		Bachelor of Arts (B.A.) Bachelor of Science (B.S.) Bachelor of Science in Chemistry (B.S.Ch.)
	Physical Science		Bachelor of Arts (B.A.) Bachelor of Science (B.S.)
Criminal Justice	Criminal Justice		Bachelor of Arts (B.A.)
Economics	Economics		Bachelor of Arts (B.A.)
English	English		Bachelor of Arts (B.A.)
† Foreign Languages	Foreign Languages (With Single language concentration from the first five or multiple language concentration from total list)	(1) French (2) German (3) Spanish (4) Spanish (5) Latin (6) Greek (7) Italian	Bachelor of Arts (B.A.)
Geography	Geography	(1) Cartography (2) Environmental and Earth Science (3) Geography (4) Human Geography (5) Urban Geography	Bachelor of Arts (B.A.) Bachelor of Science (B.S.)
History	History		Bachelor of Arts (B.A.)
Mathematical Sciences	Mathematical Sciences	(1) Mathematics (2) Applied Mathematics (3) Statistics	Bachelor of Arts (B.A.) Bachelor of Science (B.S.)
	Computer Science		Bachelor of Science (B.S.)
Philosophy	Philosophy		Bachelor of Arts (B.A.)
Physics	Physics		Bachelor of Arts (B.A.) Bachelor of Science (B.S.)
Political Science	Political Science	(1) Political Science (2) Public Administration	Bachelor of Arts (B.A.)
Psychology	Psychology		Bachelor of Arts (B.A.) Bachelor of Science (B.S.)
Sociology and Social Work	Sociology	(1) General Sociology (2) Manpower (3) Social Research (4) Urban Sociology	Bachelor of Arts (B.A.)
	Social Work		Bachelor of Arts (B.A.)
Interdepartmental Programs	Comparative Literature		Bachelor of Arts (B.A.)
	Medical Technology		Bachelor of Science in Medical Technology (B.S.M.T.)

*A concentration in Russian requires a collateral foreign language concentration or a collateral major outside the Department of Foreign Languages.

†With the consent of the International Business Advisor, Foreign Languages may also be a second or collateral major for the B.B.A. degree with a major in International Business.

PURPOSES

The College of Arts and Sciences has three distinct functions within the framework of the University.

1) Its primary function is to offer a strong liberal arts program designed to help the students prepare themselves for life in their own cultural setting by acquiring the means and desire to continue the processes of intellectual development and character formation throughout their lives. "The purpose of education," wrote John Stuart Mill, "is to make capable and cultivated human beings." "Education has for its object the formation of character," wrote Herbert Spencer. We believe that people are people, no matter what their careers, and that if we can help people to become more capable and sensible, they will have better careers and lives. It is our belief that the best preparation for any profession or vocation is a thorough foundation in those major fields of human interest, which are included in the humanities, the natural sciences, and the social sciences. A program of liberal studies at Memphis State University aims to provide the students with a store of factual knowledge, to introduce them to varying sets of principles, to stimulate them to think about and to evaluate facts and principles, and to encourage them to order their own affairs and those of their society with the talent, insight, and discrimination which they develop.

2) The College of Arts and Sciences offers this kind of education to the candidates for its own degrees, and to the students of other colleges of the University, all of whose degree plans call for courses in the arts and sciences.

3) The College offers preparatory courses for students interested in careers in medicine, dentistry, nursing, teaching, law and other professions; specific pre-professional programs, designed to prepare students to qualify for admission to professional schools, are available.

ORGANIZATION OF THE COLLEGE

Departments

The College of Arts and Sciences comprises fourteen departments: Anthropology, Biology, Chemistry, Criminal Justice, English, Foreign Languages, Geography, History, Mathematical Sciences, Philosophy, Physics, Political Science, Psychology, and Sociology and Social Work. Requirements for the majors and minors offered by these departments are listed in this section under *Departmental Requirements for Majors and Minors*.

CONCENTRATION GROUPS

The various offerings of the fourteen departments of The College of Arts and

Sciences are organized into three concentration groups:

HUMANITIES: English, French, German, Greek, history, Italian, Latin, mathematics, philosophy, psychology, Russian, Spanish.

NATURAL SCIENCES: biology, chemistry, geology (administered by The Herff College of Engineering), physical geography, mathematics, physics.

SOCIAL SCIENCES: anthropology, criminal justice, economics (administered by The Fogelman College of Business and Economics), geography (other than physical), history, philosophy, political science, psychology, sociology.

Lower and Upper Divisions

The Lower Division comprises the freshman and sophomore years, the first four semesters of undergraduate work; courses in the Lower division are numbered from 1000 through 2999. The Upper Division comprises the junior and senior years, the last four semesters of undergraduate work; courses offered in the Upper Division are numbered above 2999.

The Institute of Governmental Studies and Research

(Department of Political Science)

The Institute of Governmental Studies and Research is a research and service agency operating in close coordination with the academic program of the university. It provides research and consulting assistance to governmental agencies at the local, regional, state, national, and international levels. The focus of the Institute is upon public decision makers. Working directly with the faculty of the Department of Political Science and with the availability of the faculty resources of other departments, the Institute undertakes functions of research and service germane to public policy and governmental affairs. The functions of the Institute include the following:

I. *Research:* The Institute sponsors public policy research in order to develop and disseminate new knowledge related to both theory and practice. It enters into contracts for "institutional" research in addition to encouraging members of the faculty to engage in individual research. Research findings are published in the Institute's *Public Affairs Forum*, and in periodic monographs.

II. *Consulting, advisory, and technical assistance:* The Institute renders services to a wide spectrum of decision-makers, including private citizens and organizations as well as officials and government agencies, on a contractual basis. These activities also help to relate teaching and research to the present and future needs of public institutions and provide expanded research opportunities for faculty and students.

III. *Community Service:* The Institute is actively engaged in community service by conducting post-graduate and profes-

sional training programs, institutes, and seminars for those already in public service. Of special interest the Institute is the academic program which prepares students for employment in public service by placing them as interns with governmental agencies. This affords practical experience in the area of public service to graduate students, especially those interested in a public service career in Tennessee.

Chucalissa Indian Village and Museum

(C.H. Nash Museum)

This prehistoric Indian village and the museum are operated by the Department of Anthropology as an educational and research facility. The indoor and outdoor exhibits are designed to reconstruct prehistoric Indian life in the Mid-South.

Students are trained in the techniques of excavation, restoration and museum operations. The courses taught are listed in the Department of Anthropology offerings. Chucalissa is located 17 miles from the main campus, west of Highway 61 South, off Mitchell Road. The facility is open to the public throughout the year except during Christmas-New Year and University holidays.

ADMISSION

Requirements for admission to The College of Arts and Sciences are those set up for the University as a whole; see section 2, *Admission to the University*.

RESIDENCE REQUIREMENTS

University residence requirements are explained in detail in section 6, *Graduation from the University*. A transfer student in The College of Arts and Sciences must earn at least 6 semester hours in residence in his major subject and at least 3 semester hours in his minor. These credits may be earned only through regular class enrollment for a letter grade.

PRE-PROFESSIONAL TRAINING

Standing committees of the faculty are available to advise students interested in preparing for careers in various professional areas; committee members, representing departments of the University in which pre-professional training is given, advise students concerning specific programs required by the various professional schools. A student who completes successfully six semesters of undergraduate work before entering an accredited professional school may, upon presentation of evidence of satisfactory completion of the first year of professional edu-

cation, be granted a baccalaureate degree from Memphis State University, provided that the requirements set forth in the pre-professional degree program are met. The advisory committees are as follow:

Pre-Medical — This committee advises students interested in careers in medicine, dentistry, nursing, pharmacy, optometry, veterinary medicine, medical technology, and related fields in the health sciences.

Pre-Law — In general, accredited law schools have not adopted specific requirements for pre-law education; they do, however, emphasize certain courses as being conducive to the development of the broad cultural background necessary for the successful study of law. Students enrolling in The College of Arts and Sciences for their pre-law training are encouraged to enter immediately one of the degree programs offered by the college.

TEACHER PREPARATION

Students enrolled in a degree program of The College of Arts and Sciences who wish to prepare themselves for teaching careers in the secondary schools of Tennessee may meet the state certification requirements while pursuing their chosen majors. Detailed certification requirements are outlined under Requirements for Teacher Certification. An application to enter the teacher education program must be filed with the College of Education General Advisor, Room 215, The College of Education.

DEGREE REQUIREMENTS

Degrees Offered

The College of Arts and Sciences offers four degrees: the Bachelor of Arts, the Bachelor of Science, the Bachelor of Science in Chemistry, and the Bachelor of Science in Medical Technology.

Foreign Language Requirements

Specific requirements in foreign language for the degrees offered by The College of Arts and Sciences are as follows:

- A. **BACHELOR OF ARTS AND BACHELOR OF SCIENCE:** Twelve semester hours or the equivalent, in one foreign language.
- B. **BACHELOR OF SCIENCE IN CHEMISTRY:** German 1101, 1102, 2201 and 2203.
- C. **BACHELOR OF SCIENCE IN MEDICAL TECHNOLOGY:** Six semester hours in one foreign language.

A student already having proficiency in a foreign language taught at Memphis

State University (attained through high school or college courses, military service, private study, foreign residence, etc.) should enroll in a course at the level for which his training qualifies him. He can best determine this initial course by taking the placement test which is given at the beginning of each semester. (Detailed information is available from the chairman of the Department of Foreign Languages.) A student taking the placement test may apply immediately for the hours of credit warranted by the test score. Information pertaining to the charges for placement credit is given in section 3, *Fees and Charges*. If he chooses not to take the placement test, he may initially enroll in any course above the beginning one and upon completing it with a grade of 'C' or better apply for credit for the preceding courses. In either case, he *must make written application* to the chairman of the Department of Foreign Languages (application forms are available in the Foreign Language office). This regulation shall apply only to the lower division, and credit gained in this manner shall not exceed 12 semester hours in any one language.

This regulation will also apply to a student whose mother tongue is not English, with the following modifications: Lower-division credit in the native language will be given when he has demonstrated the English proficiency required for graduation (see section 6, *Graduation from the University*, for details), and has proven his proficiency in the native language to the satisfaction of the Department of Foreign Languages. He then must make *written application to the chairman of the Department of Foreign Languages*.

Bachelor of Arts

To qualify for the degree of Bachelor of Arts the student must complete a minimum of 132 semester hours with a quality point average of 2.0. Of the 132 semester hours required for graduation, at least 42 semester hours must be in courses from the Upper Division. Not more than 42 semester hours in any one subject will be counted toward a degree. No more than 18 semester hours may be taken outside The College of Arts and Sciences except for courses required for either (1) a minor or (2) teacher certification, but not both; the required or optional courses included in the degree requirements are not a part of these 18 semester hours. Detailed requirements are as follows:

English: ENGL 1101, 1102 with a minimum grade of C; and two of the following: 2101, 2102, 2103, 2104, 2105, 2106.

Foreign Language: 12 semester hours, or the equivalent, in one foreign language.

History: HIS 2601, 2602.

Mathematics: 6 semester hours selected from the following: MATH 1181, 1182, 1203 or 1211, 1212, 1312 or 1321, 1401, 1402, 2291, 2321, 2322, 2401, 2402, 2581.

Natural Science: One of the following two-semester sequences outside the major field: BIOL 1200, 1600; CHEM 1051, 1052; CHM 1111, 1112; GEOL 1101, 1102; GES 1101, 1201; PHYS 1111, 1112; or 1811, 1812; or 2111, 2112, or 2511, 2521.

Social Science: 6 semester hours from the following with no more than 6 hours in any one course: ANTH 1100 or 1300, 1301, 1302, 1303, 1304, 1305, 1306, 1307, 1308, 1309, 1310, 1320, 2120; GEOG 1101, 1102, 1103, 1104, 1105, 1106, 1107, 1108, 1109, 1110, 1111, 1112; HIS 1101, 1102, 1103, 1104, 1105, 1106, 1107, 1108, 1109, 1110, 1111, 1112; POLS 1101, 1102, 1103, 1104, 1105, 1106, 1107, 1108, 1109, 1110, 1111, 1112; no more than 6 hours from the following courses: JOUR 1700; COMM 1781, 1782.

Fine Arts: Two of the following courses: ART 1101; MUHL 1101; THEA 1551.

Physical Education: for details see section 6, *Graduation from the University*. (NOTE: The College of Arts and Sciences accepts a maximum of four semester hours in physical education activity courses toward the fulfillment of a degree requirement.)

Major: Completion of requirements for a major in one of the following disciplines: anthropology, biology, chemistry, computer science, geography, mathematical sciences, physics, or psychology.

Minor: Students majoring in anthropology, geography, or psychology (for a Bachelor of Science degree) must complete a minor in either biology, chemistry, mathematical sciences, or physics.

Mathematics/Philosophy: 9 semester hours as follow: mathematics plus 3 of philosophy plus 3 of either. The following courses are acceptable: MATH 1181, 1182, 1203, 1211, 1212, 1312 or 1321, 1401, 1402, 2291, 2321, 2322, 2581; PHIL 1111, 1111.

Fine Arts: Two of the following courses: ART 1101; MUHL 1101; THEA 1551.

Physical Education: for details see section 6, *Graduation from the University*. (NOTE: The College of Arts and Sciences accepts a maximum of four semester hours in physical education activity courses toward the fulfillment of a degree requirement.)

Major: Completion of requirements for any major offered in The College of Arts and Sciences.

Electives: To bring the total to 132 semester hours.

Bachelor of Science

The Bachelor of Science degree may be awarded only to students majoring in one of the following disciplines: anthropology, biology, chemistry, computer science, geography, mathematical sciences, physics, or psychology. Students majoring in anthropology, geography, or psychology (for the Bachelor of Science degree) must minor in either biology, chemistry, mathematical sciences, or physics.

To qualify for the degree of Bachelor of Science the student must complete a minimum of 132 semester hours with a quality point average of 2.0. Of the 132 semester hours required for graduation at least 42 semester hours must be in courses from the Upper Division. No more than 42 semester hours in any one subject will be counted toward a degree. No more than 18 semester hours may be taken outside The College of Arts and Sciences except for courses required for either (1) a minor or (2) teacher certification, but not both; the required or optional courses included in the degree requirements are not a part of these 18 semester hours. Detailed requirements are as follows:

English: ENGL 1101, 1102 with a minimum grade of C; and two of the following: 2101, 2102, 2103, 2104, 2105, 2106.

Foreign Language: 12 semester hours, or the equivalent, in one foreign language.

History: HIS 2601, 2602.

Mathematics: 6 semester hours selected from the following: MATH 1181, 1182, 1203 or 1211, 1212, 1312 or 1321, 1401, 1402, 2291, 2321, 2322, 2401, 2402, 2581.

Natural Science: One of the following two-semester sequences outside the major field: BIOL 1200, 1600; CHEM 1051, 1052; CHM 1111, 1112; GEOL 1101, 1102; GES 1101, 1201; PHYS 1111, 1112; or 1811, 1812; or 2111, 2112, or 2511, 2521.

Social Science: 6 semester hours from the following with no more than 6 hours in any one course: ANTH 1100 or 1300, 1301, 1302, 1303, 1304, 1305, 1306, 1307, 1308, 1309, 1310, 1320, 2120; GEOG 1101, 1102, 1103, 1104, 1105, 1106, 1107, 1108, 1109, 1110, 1111, 1112; HIS 1101, 1102, 1103, 1104, 1105, 1106, 1107, 1108, 1109, 1110, 1111, 1112; no more than 6 hours from the following courses: JOUR 1700; COMM 1781, 1782.

Fine Arts: Two of the following courses: ART 1101; MUHL 1101; THEA 1551.

Physical Education: for details see section 6, *Graduation from the University*. (NOTE: The College of Arts and Sciences accepts a maximum of four semester hours in physical education activity courses toward the fulfillment of a degree requirement.)

Major: Completion of the requirements for a major in one of the following disciplines: anthropology, biology, chemistry, computer science, geography, mathematical sciences, physics, or psychology.

Minor: Students majoring in anthropology, geography, or psychology (for a Bachelor of Science degree) must complete a minor in either biology, chemistry, mathematical sciences, or physics.

Electives: To bring the total to 132 semester hours.

Bachelor of Science in Chemistry

To qualify for the degree of Bachelor of Science in Chemistry, the student must complete a minimum of 132 semester hours with a quality point average of 2.0.

Of the 132 semester hours required for graduation, at least 45 semester hours must be in courses from the Upper Division. No more than 18 semester hours may be in courses outside The College of Arts and Sciences except for courses required for teacher certification. The required or optional courses included in the degree requirements are not a part of these 18 semester hours. Detailed requirements are as follow:

English: ENGL 1101, 1102 with a minimum grade of C, and two of the following: 2101, 2102, 2103, 2104, 2105, 2106.

Foreign Language: GERM 1101, 1102, 2201, and 2203.

History: HIST 2601, 2602.

Mathematics: MATH 1212, 1321, 2321, 2322.

Physics: PHYS 2511, 2512, or 2111, 2112 (by permission).

Chemistry: CHEM 1111, 1112, 3201, 3211, 3301, 3303, 3311, 3312, 3411, 3412, 3604, 3611, 3612, and 3622; and two additional semester hours in science chemistry courses. No more than three credit hours of research may be counted toward the chemistry requirements.

Social Sciences: Three semester hours from one and subsequently two additional courses including one in anthropology, economics, geography (excluding earth science courses) and GEOG 3901, 3902, and 4510; history (excluding HIST 2601 and 2602), philosophy, political science, psychology, and sociology.

Fine Arts: One of the following courses: ART 1101; MUHL 1101; THEA 1551.

Physical Education: for details see section 6, *Graduation from the University*. (NOTE: The College of Arts and Sciences accepts a maximum of four semester hours in physical education activity courses toward the fulfillment of its degree requirements).

Minor: Completion of the requirements for a minor in biology, physics or mathematical sciences.

Electives: to bring the total to 132 semester hours.

Bachelor of Science in Medical Technology

For students interested in careers in medical technology, The College of Arts and Sciences offers a three-year preparatory curriculum, the successful completion of which will qualify them to enter any school of medical technology approved by the American Medical Association Council on Medical Education. After completion of the curriculum in the school of medical technology, the student is eligible for examination and certification by the Registry of Medical Technologists of the American Society of Clinical Pathologists.

The University maintains an affiliation in Memphis with the Schools of Medical Technology of the Baptist Memorial Hospital, Methodist Hospital, and St. Francis Hospital, all of which are accredited. Only those students who enroll in the School of Medical Technology of one of these hospitals can qualify for the degree of Bachelor of Science in Medical Technology from Memphis State University. Should a student decide to enter one of these schools after completing successfully the preparatory curriculum, he should apply directly to the school of his choice nine to twelve months in advance of the time he wishes to enter. After the completion of his clinical year he may apply for the degree of Bachelor of Science in Medical Technology from this University.

Specific requirements for the preparatory curriculum in medical technology and the additional requirements for those working toward a baccalaureate degree are as follow:

ENGL 1101, 1102 with a minimum grade of C, and two of the following: 2101, 2102, 2103, 2104, 2105, 2106

Foreign Language 6 semester hours in one language

HIST 2601, 2602

PSYC 1101 or SOCI 1111 or PHIL 1111

PSYC 1102

MATH 1212

BIOL 1600, 2000, 3070, 3500, 3730, 3800, 4440

CHEM 1111, 1112, 3201, 3211, 3301, 3302, 3311, 3312

PHYS 2111, 2112

Two of the following courses: ART 1101, MUHL 1101, THEA 1551

Professional Educator: see section 6, *Graduation from the University*. (NOTE: The College of Arts and Sciences accepts a maximum of four semester hours in physical education activity courses toward the fulfillment of its degree requirements.)

(Courses strongly recommended are PSYC 2301, BIOL 4444, COMM 1311, CHEM 4511, MGMT 3110 and 4210)

IMPORTANT NOTE: The preparatory curriculum in medical technology does NOT qualify a student for the three-year pre-professional degree program. Only those students who enroll in the Schools of Medical Technology of the Baptist Memorial Hospital, the Methodist Hospital, or St. Francis Hospital, all located in Memphis, can qualify for the degree of Bachelor of Science in Medical Technology from Memphis State University.

DEPARTMENTAL REQUIREMENTS FOR MAJORS AND MINORS

Listed below are the specific course requirements for all majors and minors offered in The College of Arts and Sciences.

A minimum grade of C is required in every course applicable toward a major or minor (including corequisites), except in beginning courses and in sophomore English.

Every student should be aware that the mere completion of courses outlined below with a grade of C or better does not guarantee him classification as a major or minor in the discipline concerned; he must be recommended by the chairman of the department in which the major or minor is sought. If, in the opinion of the chairman, the quality of the student's work is not high enough, he may require additional work, the repetition of courses, or other evidences of acceptable scholarship.

ANTHROPOLOGY

The Major: 30 semester hours in anthropology courses, including ANTH 1100 or 1300, 1200 or 1400, 3200, 4065; and 18 additional semester hours, at least 6 of which must be at the 4000 level.

The Minor: 18 semester hours in anthropology courses, including ANTH 1100 or 1300, 1200 or 1400, 3200, and 4065.

Honors Program:

The Department of Anthropology offers an honors program in anthropology to the superior anthropology student who desires a more intensive approach to and knowledge of the discipline, a deeper understanding of research skills, and an opportunity for original criticism and analysis. To be eligible, student must: (a) have the approval of the Department of Anthropology; (b) be an anthropology major; (c) have attained at least junior standing; (d) have completed successfully Anthropology 1100 or 1300, 1200 or 1400, and one upper-division anthropology course, (e) maintained a cumulative grade point average of at least 3.00 in overall studies, (f) maintained a cumulative grade point average of at least 3.25 in anthropology, (g) completion of four honors

courses in anthropology (at least one of which must be an independent study culminating in a research paper/thesis or research report) and a minimum of six hours in honors courses outside anthropology. Those students who complete the program and the regular college requirements will be recognized at the commencement ceremony by having their degree conferred "With Honors in Anthropology." Moreover, the student will receive a record of recognition. Memphis State University will reflect this. Details of the program are available at the Department of Anthropology office.

BIOLOGY

The Major: 36 semester hours in biology courses, including BIOL 1200, 1600, 2000, 3070; the election of one of the following areas of concentration and the meeting of the specific requirements for that area; and CHEM 1111, 1112, 3301, 3311, 3302, 3312. Completion of both BIOL 1200 and BIOL 1600 shall be required before enrolling in any upper division course which is acceptable for a major.

a. BOTANY: One field course chosen from BIOL 3240, 4225, or 4240; one morphology course chosen from 3220, 3221, 3222, 4226; one physiology course either 4231 or 4232; and upper division hours in biology (chosen in conference with the advisor) to bring the total semester hours in biology to 36.

b. MICROBIOLOGY: BIOL 3500, 3560; two courses chosen from 4401, 4402, 4460, 4560; and upper division hours in biology (chosen in conference with the advisor) to bring the total semester hours in biology to 36.

c. INVERTEBRATE ZOOLOGY OR ENTOMOLOGY: BIOL 3840, two courses chosen from 3800, 3900, 3940, 3960, 3965, 4001, 4820, 4920, 4930; and upper division hours in biology (chosen in conference with the advisor) to bring the total semester hours in biology to 36.

d. VERTEBRATE ZOOLOGY: BIOL 3700; one morphology course (either 3610 or 3620); one physiology course (either 3030 or 3730); and upper division hours in biology (chosen in conference with the advisor) to bring the total semester hours in biology to 36.

The Minor: 18 semester hours in biology courses (including BIOL 1200 and 1600), 7 of which must be upper division hours. Completion of both BIOL 1200 and 1600 shall be required before enrolling in any upper division course which is acceptable for a minor. Either 3100 or 4100 may be included in meeting requirements, but not both.

CHEMISTRY

(The requirements listed below are for majors and minors for Bachelor of Arts or Bachelor of Science degrees; for detailed requirements for the Bachelor of Science in Chemistry, a professional degree, see degree requirements described earlier in this section.)

CHEMISTRY

The Major: 32 semester hours in chemistry courses, plus related courses, outlined below: CHEM 1111, 1112, 2321, 2322, 3301, 3302, 3303, 3311, 3312, and sufficient additional upper division semester hours. No more than three credit hours of research may be counted toward the chemistry requirements.

MATH 1212, 1321, and two of the following courses: MATH 2321, 2322, 4611, and COMP 4001.

PHYS 2511, 2512 (or 2111, 2112 if approved by the chairman of the Department of Chemistry).

The Minor: 20 semester hours in chemistry courses, including CHEM 1111, 1112, 3301, 3302 or 3303, 3311, 3312, and three or four upper division semester hours.

PHYSICAL SCIENCE

A major in physical science is suggested for those students who plan to teach the sciences in high school but do not desire to major in either chemistry or physics.

The Major: 32 semester hours in chemistry and physics courses, including CHEM 1111, 1112, PHYS 2511, 2512 (or PHYS 2111, 2112), and

additional upper division hours in chemistry and/or physics courses to bring the total to 32 semester hours.

The Minor: 20 semester hours in chemistry and physics courses, of which at least 8 semester hours must be from the upper division.

COMPARATIVE LITERATURE

Comparative Literature is an interdepartmental program focusing on international literary relations and critical theory, offered jointly by the departments of English and Foreign Languages. Under the guidance of a Comparative Literature Program advisor, students pursuing a major or a minor in this discipline develop a coherent program of study by choosing courses from the two departments.

The Major:

12 lower division hours or equivalent proficiency in at least one foreign language; a minimum of 24 upper division semester hours, including COLI 4400, so arranged as to provide a concentration in two literatures. One of these courses will be American English. The other will be a foreign language. Students are expected to devote some portion of their program to comparative study of the interrelations of their literary specialties.

The Minor:

12 lower division hours or equivalent proficiency in one foreign language; a minimum of 15 semester hours in upper division literature courses, including COLI 4400.

See the upper division literature course listings for English and Foreign Languages.

COMPUTER SCIENCE

The Major: 58 to 60 semester hours consisting of MATH 1321, 2321, 2701, 4241, 4613; COMP 1000, 2010, 3230, 3420, 4040, 4150, 4160, 4270 and an elective sequence which is a coherent package of 17-19 hours of computer-oriented courses designed by the student and his faculty advisor and approved by the Computer Science faculty. PHYS 2010 and 2510 are strongly recommended for the natural science requirement sequence and PHIL 1611 and ECON 2120 are strongly recommended as part of the social science requirement for the B.S. degree. This major is offered through the Department of Mathematical Sciences.

CRIMINAL JUSTICE

The Major: 36 semester hours of criminal justice including CJUS 1100, 2100, 3128, 3510, 3521 and 3541 plus 18 additional upper division hours in criminal justice as approved by the departmental advisor.

The Minor: 18 hours in criminal justice courses including CJUS 1100.

Honors Program:

Criminal Justice majors or minors who have completed a minimum of 55 credit hours with a cumulative grade point average of at least 3.25 overall and 3.5 in criminal justice may apply to the Criminal Justice Honors Program. The program requires 18 hours of honors coursework, 6 hours of which must be taken outside the department. The Criminal Justice Honors Program is designed to offer to superior students a flexible curriculum which encourages the development of an individual's abilities to his or her full potential. The program provides for more intensive study and research than can normally be made available in standard undergraduate classes. Those students who complete the program and the regular college requirements will be recognized at the commencement ceremony by having their degree conferred "With Honors in Criminal Justice." Moreover, the student's diploma and the record at Memphis State University will reflect this. A detailed description of the program and the admission procedure is available in the Criminal Justice Department office.

ECONOMICS

The Major: 30 semester hours, including ECON 1010 or 2110, 2120 (or six hours of Honors Principles), 3310, 3320, 4920, and 15 additional upper division semester hours in economics courses as approved by the department advisor.

The Minor: 18 semester hours in economics courses, including ECON 1010 or 2110, 2120 (or six hours of Honors Principles) 3310, 3320, and six additional upper division hours as approved by the department advisor.

Honors Program:

All students who receive a grade of B or better in ECON 2130 or 2140 are eligible for the honors program. Entry to the program can also be obtained through the recommendation of a member of the faculty to the Economics Departmental Honors Committee. A student must maintain an average grade of at least 3.25 in economics to continue in the program and must have a grade average of 3.5 in all other economics to graduate with honors in economics. Honor students take special courses during the junior and senior years, particularly the honors sections of ECON 3310 and 3320, and write a senior research paper. Those students who complete the program and the regular college requirements will be recognized at the commencement ceremony by having their degree conferred "With Honors in Economics." Moreover, the student's diploma and the record at Memphis State University will reflect this. Details of the program are available in the Economics Department office.

ENGLISH

The Major: 36 semester hours of English, including 12 hours lower division (University requirement) and 24 hours above the 2000 level: 3 hours of British literature (chosen from among 3211, 3221, 3231, 3241, 3311, 3321, 4231, 4232, 4233, 4234); 3 hours of American literature (chosen from among 3221, 3322, 4321, 4322); 9-12 hours in one of the following areas to be selected with the approval of an adviser: (British Literature, American Literature, Modern Literature, Language and Linguistics, Creative Writing, or Professional Writing); 6-9 hours of upper division English electives. Students should see their adviser to discuss and explain the advantages of the various areas and assist students in developing an appropriate program.

The Minor: 12 upper division semester hours in English.

NOTE: Students who wish to satisfy the requirements for both the English major and endorsement to teach English in high school should consult the certification requirements listed in the College of Education section of this *Bulletin*.

Students who intend to major in English are strongly advised to take ENGL 2101 and 2102.

Students who intend to pursue graduate studies in English are strongly advised to elect courses which will ensure a comprehensive overview of the major figures and movements in British and American literature and of modern language theory.

Honors Program:

Freshman students with high ACT scores are issued invitations to participate in the honors program and to qualify students during the freshman and sophomore years. During the junior and senior years, it is restricted to English majors; students are eligible to apply for admission to the program if they have a grade point average of 3.25 in their overall studies and in English. Honor students take special courses during the junior and senior years and write a senior research paper. Those students who complete the program and the regular college requirements will be recognized at the commencement ceremony by having their degree conferred "With Honors in English." Moreover, the student's diploma and the record at Memphis State University will reflect this. Details of the program are available at the English Department office.

FOREIGN LANGUAGES:

The Major: 30 or more semester hours from A and B, below

A. Courses numbered 1101, 1102, 2201, and either 2202 or 2203 (or their equivalents) in the chosen language or languages in which upper division courses are to be taken.

B. Successful completion of one of the following concentrations:

1. A single-language concentration in French, German, Latin, Russian*, or Spanish: 18 upper division semester hours.

2. A two-language concentration chosen from French, German, Greek, Italian, Latin, Russian, and Spanish: 18 upper division semester hours with a minimum of 9 semester hours in each language.

3. A three-language concentration: All three-language concentrations require prior consultation with and approval of the department chairman. Plans will normally consist

of 30 semester hours to include at least 12 upper division semester hours in each of two languages plus approved course work in a third language.

NOTE: With the consent of the International Business advisor and an advisor in the Foreign Languages department, Foreign Languages may also be a collateral major for the B.B.A. degree with a major in International Business.

Any major in Foreign Languages may earn a collateral minor in International Business. These Foreign Language majors should take the following set of upper division courses: Advanced Conversation and Composition (6 hours) and the two courses for Commerce given by the individual languages. Students will have a minimum of six more credits to be taken from other upper division courses.

The minor in International Business will have at least 18 semester hours with the Fogelman College of Business and Economics. Notice that the courses listed in the Business and Economics section are upper division and require corresponding lower division courses. Therefore, a minor will include, normally, 9 hours from this list and another 9 hours of lower division courses taken as prerequisites.

Please consult with your advisor and with the advisor of the International Business program regarding any matter concerning the curriculum program or graduation requirements.

The Minor: 21 semester hours from A and B, below

A. Courses numbered 1101, 1102, 2201, and either 2202 or 2203 (or their equivalents) in the foreign language in which upper division hours are to be taken.

B. 9 upper division semester hours in one of the following languages: French, German, Latin, Greek, Italian, Russian, or Spanish.

* A concentration in Russian requires a collateral foreign language concentration or a collateral major outside the Department of Foreign Languages.

GEOGRAPHY

The Major: 31 semester hours in geography courses including one course from each of the core subject areas for a total of 13 hours and completion of the requirements in one of the following areas of concentration:

Core Requirements:
a. ENVIRONMENTAL and EARTH SCIENCE: GEOG 1101 or 1102 (4)

b. Human: GEOG 1401, 3200, or 3430 (3)

c. Regional: Any regional geography (3)

d. Cartography: GEOG 3502 or 4501 (3)

Concentrations:
a. GEOGRAPHY: 18 semester hours of geography with a minimum of 12 upper division hours.

b. ENVIRONMENTAL AND EARTH SCIENCE: 18 semester hours of geography with a minimum of 12 upper division hours selected from GEOG 3221, 4111, 4111, 4121, 4122, 4131, 4201, 4211, 4231, and 4251.

c. CARTOGRAPHY: 18 semester hours of geography with a minimum of 12 upper division hours selected from GEOG 3501, 3502, 4501, 4502, 4510, 4511, 4521, and 4531.

d. URBAN GEOGRAPHY: 18 semester hours of geography with a minimum of 12 upper division hours selected from GEOG 3430, 3451, 4201, 4431, 4434, and 4531.

e. HUMAN GEOGRAPHY: 18 semester hours of geography with a minimum of 12 upper division hours selected from GEOG 3221, 3430, 3501, 4251, 4421, 4442, 4443, and 4453.

The Minor: 20 semester hours in geography courses, at least 9 of which must be upper division hours.

HISTORY

The Major: 30 semester hours in history courses, including HIST 1301, 1302, 2601, 2602, and 18 additional upper division semester hours. Of the 18 upper division hours required for the major, a maximum of 12 may be taken in any one field (United States, Latin American, Ancient/Byzantine, European, Russian, Far Eastern, African).

The Minor: 24 semester hours in history courses, including HIST 1301, 1302, 2601, 2602, and 12 additional upper division semester hours.

Honors Program:

History majors who have attained junior standing, have completed successfully six semester hours of lower division history, and have maintained a grade point average of at least 3.25 in overall studies and in history courses taken, are eligible for admission to the honors program in history. Students admitted to the program will take 12 hours of honors work in history, including History 4003 and History 4996, during their junior and senior years. Those who successfully complete the program and the regular B.A. requirements will have their degree conferred "With Honors in History." The student's diploma and the record of the honors work in history at Memphis State University will be officially endorsed. A detailed description of the program, together with application forms for admission, may be obtained in the History Department office.

MATHEMATICAL SCIENCES

The Major: 36 semester hours in mathematical science courses including MATH 1321, 2321, 2322, and 4241 (for departmental honors students, 37 semester hours including MATH 1401, 1402, 2401, and 2402); CHEM 1111 and 1112 or PHYS 2511 and 2512 (for honor students, two approved one-semester courses containing significant mathematical applications, taken in a department other than Mathematical Sciences); and completion of the requirements in one of the following areas of concentration.

(a) MATHEMATICS: MATH 4350; three of the following courses—MATH 4261, 4351, 4361 and 4411; and 9 upper division semester hours of electives in the mathematical sciences.

(b) APPLIED MATHEMATICS: MATH 3391, 4350, 4391, 4392; and 9 upper division semester hours of electives in the mathematical sciences.

(c) STATISTICS: MATH 4611, 4612, 4613, 4631, COMP 4001; and 6 upper division semester hours of electives in the mathematical sciences.

The Minor: 18 semester hours in mathematical science courses, including MATH 1321, 2321, and 2322; or 6 upper division semester hours in courses in mathematical sciences.

Honors Program:

The Department of Mathematical Sciences offers an honors program in mathematics for the talented student who desires to achieve mathematical maturity at a rate consistent with his own exceptional ability. In the first year of this program, the student will investigate calculus from a theoretical viewpoint. The second year will consist of exploring in depth the fundamental concepts of contemporary mathematics. After completion of the first two years of the program, the participant will be treated as a mature student of mathematics and he will be allowed to register for any course in mathematical sciences at the B.S. or M.S. level (subject to the regulation of the Graduate School concerning combination undergraduate-graduate students as set forth on page five of Policies of the Graduate School) regardless of the form of his program of study. The second two years of the honors program are thus characterized by a high degree of flexibility and mathematical maturity. Specific requirements are as follow:

1. MATH 1401, 1402, 2401, 2402 (in lieu of 1321, 2321, 2322, and 4241).

2. At least two approved one-semester courses containing significant mathematical applications, taken in a department other than Mathematical Sciences.

3. A minimum of 21 hours of upper-division courses in Mathematical Sciences, including Senior Honors Seminar, with a minimum grade of B or better in these courses; courses to be determined in consultation with the student's advisor and with the approval of the departmental Honors Committee.

Those students who complete the program and the regular college requirements will be recognized at the commencement ceremony by having their degree conferred "With Honors in Mathematical Sciences." Moreover, the student's diploma and the record at Memphis State University will reflect this. The Honors Committee of the Department of Mathematical Sciences will make all decisions concerning admissions to the program.

PHILOSOPHY

The Major: 30 semester hours in philosophy courses including PHIL 1111, 1611, 3001, 3002, 3411 or 3511 and 15 additional upper division semester hours.

The Minor: 18 semester hours in philosophy courses, including PHIL 1111, 1611, and 12 upper division semester hours.

Honors Program:

The Honors Program is open to philosophy majors with a 3.0 overall average and a 3.5 average in philosophy. The student will complete, with a grade of B or better, either the philosophy honors seminar (PHIL 3800) or a thesis submitted for credit in PHIL 4891. The thesis topic must be approved by the thesis director before the student registers for PHIL 4891.

This student who complete the program and the regular college requirements will be recognized at the commencement ceremony by having their degree conferred "With Honors in Philosophy." Moreover, the student's diploma and the record at Memphis State University will reflect this honor.

PHYSICAL SCIENCE (See Chemistry)**PHYSICS**

The Major: 37 semester hours in physics courses, including PHYS 2511, 2512 (PHYS 2111, 2112 are acceptable but not recommended) and additional upper division hours.

CHEM 1111 and 1112; MATH 1321, 2321, 2322, and 3391, or equivalent courses.

The Minor: 20 semester hours in physics courses, including PHYS 2511, 2512 (PHYS 2111, 2112 are acceptable but not recommended), and additional upper division hours.

POLITICAL SCIENCE

The Major: 30 semester hours in political science courses, including POLS 1100, 1101, either 2301 or 2501, and completion of requirements for one of the concentrations below:

POLITICAL SCIENCE: POLS 3100 and a minimum of 18 additional semester hours, at least 15 of which must be upper division hours from one of the following: American Government, Comparative Political Theory, International Relations, Comparative Politics, and Public Administration. Only 9 semester hours of internship courses may be counted toward the 30 semester hour requirement.

PUBLIC ADMINISTRATION: Either POLS 3211 or 3224, 4101, and a minimum of 15 additional semester hours in political science, at least 12 of which must be upper division hours. Only 9 semester hours of internship courses may be counted toward the 30 semester hour requirement.

The Minors: **POLITICAL SCIENCE:** 18 semester hours in political science courses, including POLS 1101 and at least 6 semester hours from the upper division.

PUBLIC ADMINISTRATION: 18 semester hours in political science courses including POLS 1100, 3213, 3601 and 9 additional semester hours to be selected from the following: POLS 3211, 3224, 4213, 4214, 4221, 4224, 4231, 4321, 4602, 4603, 4604, 4611, and 4702.

Honors Program:

The department offers an honors program to qualified majors who choose to pursue a more sophisticated knowledge of the discipline, a more rigorous level of analysis, and a deeper understanding of politics. Students who have completed about 55 hours of course work (with at least 9 hours in Political Science) and have a minimum over-all grade point average of 3.0 (with a minimum in Political Science of 3.25), or can present evidence of equivalent achievement, are invited to apply for admission to the program. The program requires 18 hours of honors course work, 12 or more of which must be upper-division Political Science courses, and minimum final grade point averages of 3.00 overall, 3.25 in Political Science, and 3.25 in honors course work. Those students who complete the program and the regular college requirements will be recognized at the commencement ceremony by having their degree conferred "With Honors in Political Science." Moreover, the student's diploma and the record at Memphis State University will reflect this. Details of the program are available in the Political Science Office.

PSYCHOLOGY

The Major: 33 semester hours in psychology courses, including PSYC 1101, 1102, 2301, 2302, 4101, 4504; at least one course each from the 31 —, the 33 —, and the 35 —, series; and 6 additional hours at or above the 3000 level.

The Minor: 18 semester hours, in psychology, including PSYC 1101, 1102, 2301 (or equivalent), 2302, and 6 additional hours at or above the 3000 level.

Honors Program:

Psychology majors who have completed at least 55 hours of course work may apply for admission to the Psychology Honors Program provided they meet these requirements: (a) an overall grade-point average of 3.00 or better, (b) completion of PSYC 1101, 1102, 2301 and 2302 and (c) completion of 12 hours of honors course work in psychology courses taken. Students in the program participate in an Honors Seminar (PSYC 3600) during the junior year and write an Honors Thesis (PSYC 4600) during their senior year.

To graduate with Honors in Psychology, the student must have met these requirements: (a) completion of 18 hours of honors course work, including the Psychology Honors Seminar (PSYC 3600) and the Honors Thesis (PSYC 4600). At least 12 hours of honors course work must have been acquired in upper division courses. Grades of A or B must have been received in all honors courses; (b) completion of at least 132 hours of college course work with an overall GPA of 3.25 or better; (c) completion of requirements for a psychology minor with an overall GPA of 3.50 or better. Those students who complete the program and the regular college requirements will be recognized at the commencement ceremony by having their degrees conferred "With Honors in Psychology." Moreover, the student's diploma and the record at Memphis State University will reflect this. A detailed description of the program, together with application forms for admission, may be obtained in the Psychology Department.

SOCIOLOGY AND SOCIAL WORK**SOCIOLOGY**

IMPORTANT NOTE: The social research minor may be elected only by students who have majors in the social sciences.

The Major: 30 semester hours in sociology, including SOCI 1111, 3311, 3322, 4210 or 4211, and completion of requirements in one of the following areas of concentration.

GENERAL SOCIOLOGY: 18 additional semester hours in sociology including at least 9 upper division hours.

MANPOWER: This concentration is open to the student who majors in sociology and who is accepted into the interdisciplinary Manpower program. SOCI 3831, 4842, and 12 additional semester hours in sociology; plus MGMT 3110, ECON 3810, and 3811.

SOCIAL RESEARCH: 9 additional semester hours from the following: SOCI 4340, 4622, 4730, 4912; plus 9 additional semester hours in sociology.

URBAN SOCIOLOGY: This concentration is open to the student who elects a double major in Sociology and Urban Studies. SOCI 4420, 4620, 4631, and 9 additional semester hours in sociology; plus 24 additional semester hours from the Urban Studies Curriculum.

The Minors:

SOCIOLOGY: 18 semester hours in sociology, including SOCI 1111.

SOCIAL RESEARCH: 18 semester hours in sociology, including SOCI 1111, 3311, 3322, and 9 hours selected from the following: SOCI 4340, 4632, 4730, 4912.

SOCIAL WORK

The Major: 39 semester hours including SOCI 1111; SWRK 2911, 3901, 3902, 3903, 3904, 3905, 3912, 4830, 4932, 4933, and one upper division course in social research. A minimum of 33 upper division hours is required. BIOL 1600 (or its equivalent) is required.

The Minor: 18 semester hours in sociology and social work courses, including SOCI 1111, SWRK 2911, 3901, 3902, and six additional upper division semester hours in social work courses.



Students in Free Enterprise



The Fogelman College of Business and Economics

M. E. BOND, Ph.D., Dean
Room 432, The College of Business
Administration Building

PURPOSES

Areas of Professional Training

The Fogelman College of Business and Economics offers a wide selection of general and specialized fields, each of which has programs designed to prepare students for a variety of careers:

CAREERS IN ACCOUNTANCY: Accounting is a vital activity in any business. The increased complexity of financial records resulting from federal regulations and the expanded use of automation necessitates a highly technical background for persons who prepare financial reports. The Department of Accountancy administers the testing program of The American Institute of Certified Public Accountants, the national scope of which enables students to check their individual ratings with national averages. Graduates with a major in accounting are qualified to take the Certified Public Accountants' examination in Tennessee; students desiring a career in public accounting are encouraged to intern with a public accounting firm in their senior year.

The function of The Fogelman College of Business and Economics is to provide the basic education necessary to prepare a person to enter the profession of business. A significant characteristic of the college is that it provides for concentration in the basic areas of economics and business, not as a substitute for, but as a part of a broad liberal education. From forty to sixty per cent of the course work taken for the Bachelor of Business Administration degree (a required minimum of 40 per cent) is taken in such areas as the humanities, the natural and physical sciences, and the social sciences.

The undergraduate and graduate programs of the college are fully accredited by the American Assembly of Collegiate Schools of Business.

CAREERS IN ECONOMICS: A sound understanding of our economic system is essential for today's businessman. In addition, business employs the professional economist for forecasting and explaining the effect of changing economic variables. Many economists are employed by government for comparable reasons. Training in economics is designed to increase awareness of economic problems and encourage the student to analyze alternative solutions for himself.

CAREERS IN FINANCE, INSURANCE, AND REAL ESTATE: Due to the greatly increased recognition given to managing the financial operations of a business, with its increased complexity and newer techniques, considerable demand has developed for those skilled in managing the financial flows of a business.

The risk factor involved in both business and life is beyond man's control. To meet this challenge courses in insurance can be highly rewarding for the college graduate. The department offers preparation for careers in property insurance, life insurance, and risk management.

ACADEMIC PROGRAMS

Department	Major	Concentration Within Major	Degree Offered (B.B.A.)
Accountancy	Accounting		Bachelor of Business Administration
Economics	Business Economics		Bachelor of Business Administration
Finance, Insurance, and Real Estate	Finance		Bachelor of Business Administration
	Insurance		Bachelor of Business Administration
	Real Estate		Bachelor of Business Administration
Management	Management	(1) General Management (2) Production Management (3) Personnel Administration and Industrial Relations (4) Quantitative Methods and Business Systems	Bachelor of Business Administration
Marketing	Marketing	(1) Advertising (Marketing Communications) (2) General Marketing (3) Retailing (4) Sales (5) Transportation and Logistics (6) Agrimarketing	Bachelor of Business Administration
Office Administration	Office Administration	(1) Secretarial (2) Office Management (3) Legal Office Management	Bachelor of Business Administration
	Legal Assistant		Certificate
Interdisciplinary Program	International Business		Bachelor of Business Administration
	Foreign Languages		
	Entrepreneurship		Certificate

[†]In the B.B.A. degree, Foreign Languages may be used only as a collateral or second major to accompany International Business.

The ever increasing growth in population, with a constant supply of real estate, demands that the businessman have a working knowledge of real estate problems. Courses are offered to prepare students for both private practice and to function as an integral part of a business organization.

CAREERS IN MANAGEMENT: The effective manager of today must have competence in many disciplines, an understanding of a wide variety of relationships and the ability to analyze evolving management requirements.

Effective adaptation of management to such emergent conditions as the continued growth of science and technology, population, and large scale organization demands a thorough knowledge of management process theory.

The management programs of study are designed to provide professional preparation in the management of business and economic affairs. Opportunities are increasing, as well, in governmental agencies, foundations, hospitals, and other types of organizations.

CAREERS IN MARKETING: The Department of Marketing provides an educational experience for those who are interested in such areas as retailing, wholesaling, industrial marketing, purchasing, advertising, sales management, agrimarketing, transportation and logistics, and marketing research. Careers in marketing provide a high degree of freedom, mobility, security, challenge, and a high level of monetary reward.

Students who wish to teach marketing (distributive education) in high schools, technical institutes, and junior colleges should minor in Distributive Education in

The College of Education. Certification requirements are listed in section 7, Colleges and Degree Programs, with descriptions of programs for The College of Education. For information concerning careers in this field students should see the chairman of the Department of Distributive Education.

CAREERS AS PROFESSIONAL SECRETARIES, OFFICE MANAGERS, LEGAL ASSISTANTS, AND LEGAL ADMINISTRATORS: The value of a secretary, either man or woman, with a university degree is receiving increasing recognition by business executives; the same thing is true in the field of office management. Legal assistants and legal administrators are also in demand. Thorough training in both fields is provided by the Department of Office Administration.

CAREERS IN BUSINESS EDUCATION: In cooperation with The College of Education, The Fogelman College of Business and Economics assists in the preparation of students to teach business subjects in the secondary schools. A student with a major in any one of the six departments of the college can qualify for a high school teaching certificate by completing the certification requirements as outlined in the description of programs for The College of Education in section 7, Colleges and Degree Programs.

CAREERS IN INTERNATIONAL BUSINESS: The Fogelman College of Business and Economics, with the cooperation of the Office of International Studies, offers an interdisciplinary program leading to the Bachelor of Business Administration degree with a major in international business. The International Business Program provides the student with broad

theoretical and practical skills that will prepare him to meet challenges of a career in an international business field. Students will, when possible, be afforded the opportunity of working in an international company, in this country or abroad, in order to acquire practical, first-hand knowledge of international operations.

The Pre-Law Curriculum

A student enrolled in The Fogelman College of Business and Economics who wishes to prepare himself for entrance to law school will qualify for the Bachelor of Business Administration degree. Any major in The Fogelman College of Business and Economics may be selected, and the regular program for that major, as outlined in the *Bulletin*, should be followed.

ORGANIZATION OF THE COLLEGE

The Fogelman College of Business and Economics comprises six academic departments: Accountancy; Finance, Insurance and Real Estate; Economics; Management; Marketing; and Office Administration. These departments offer a variety of majors and minors, the detailed requirements for which are listed later in this section with departmental requirements. The interdisciplinary International Business Program centered in this college offers an undergrad-

uate major in International Business; requirements are listed in the section pertaining to departmental requirements. In addition there are two research departments: Bureau of Business and Economic Research, and Center for Manpower Studies.

The college curriculum is organized into a lower division and an upper division:

THE LOWER DIVISION comprises the freshman and sophomore years, the first four semesters of University work. Courses offered in the lower division are numbered from 1000 through 2999, and the student must register consistently for all lower division requirements until they are completed.

THE UPPER DIVISION comprises the junior and senior years of undergraduate work; courses offered in the upper division are numbered from 3000 through 4999. **One of the prerequisites for any 3000 or 4000 numbered business course is junior standing (minimum of 55 semester hours credit).**

Academic Advising

Every student entering The Fogelman College of Business and Economics will be assigned an advisor by the college's Advising Office (BB 357). The advisor will assist the student in the selection of appropriate courses, and provide the opportunity for meaningful discussion regarding career goals, past academic experience and future academic growth and progress as it relates to the student's development. This assistance, however, does not in any way relieve the student of the primary responsibility of studying the *Bulletin* himself, and fulfilling all the requirements for his degree.

Laboratory Facilities

The Fogelman College of Business and Economics occupies modern, air-conditioned buildings with comfortable classrooms and more than 10 laboratories for student development. Among these are facilities for accounting, secretarial practice, and data processing; modern computer-linked terminal rooms, a sales lab, and a unique classroom specifically designed for The Fogelman College of Business and Economics' Executive Master of Business Administration (MBA) program.

Bureau of Business and Economic Research

The Bureau of Business and Economic Research conducts research designed to contribute to economic and business knowledge. The primary emphasis of the bureau effort is on Memphis, Tennessee, and the Mid-South. The bureau has four specific functions:

1. To develop and disseminate data on current business and economic conditions.

2. To furnish to business concerns and governmental agencies special studies which will contribute to economic development.
3. To develop economic base studies for various counties and regions in an effort to help them plan the economic development of their area.
4. To train graduate students in business and economic research and to provide research facilities for faculty members.

The bureau maintains the Mid-South Information Center. This Center contains approximately 20,000 books, censuses, periodicals, studies, and brochures, and has numerous files which contain statistical data provided by national, state, and local sources. In addition to regional economic data, there is also extensive information available on business, agriculture, labor, population, finance, government, and resources. There is a working arrangement between this center and the main library of Memphis State University, and books and other information available in the Cossitt-Goodwyn Technical Library of Memphis can be obtained on a loan arrangement.

Center for Manpower Studies

The center offers graduate and undergraduate instruction in manpower topics within an interdisciplinary framework including economics, education, management, political science, psychology and sociology. Opportunities for student research projects, including theses, and an internship program will be provided by the center. The instructional program will be provided on an inter-institutional basis with Memphis State University and the University of Mississippi.

In addition the center will sponsor and conduct research on problems of manpower allocation, policy and alternatives to existing practices.

ADMISSION

Requirements for admission to The Fogelman College of Business and Economics are those set up for the University as a whole; see section 2, *Admission to the University*.

RESIDENCE REQUIREMENTS

Residence requirements for a degree in business administration are as follows: The senior year must be in residence; at least 33 hours of upper-division business courses must be taken at Memphis State University; 12 of these hours must be in the major field.

In order to earn a minor in this college, a transfer student majoring in one of the

other colleges of the University must earn at Memphis State University at least 6 upper division hours of the total number of hours required for that minor.

University residence requirements are explained in detail in section 6, *Graduation from the University*.

DEGREE REQUIREMENTS

The Fogelman College of Business and Economics offers the degree of Bachelor of Business Administration. To qualify for this degree the student must complete 132 semester hours with a quality point average of 2.0. A grade of C or better must be earned for each course required for the major or minor. A student majoring in The Fogelman College of Business and Economics is not required to have a minor.

All courses used to satisfy specific degree requirements of this college must be taken on a "letter-grade credit" basis or "credit by examination." Hours earned on a "Credit-No-Credit" basis are accepted only in courses which are designated as electives in the student's degree program. Courses taken on an "Audit" basis cannot be used to satisfy college requirements.

A minimum of 40% (53 hours) of the 132 semester hours required for the degree must be from outside business and economics (except for the Principles of Economics) and a minimum of 40% (53 hours) of the 132 semester hours required for the degree must be taken within the college. At least 51 hours must be in business courses from upper division or other approved business related upper division courses.

In addition to the requirements cited above, electives must be selected by the student to bring the total hours to 132 semester hours required for graduation. No BBA student may apply more than four (4) semester hours of physical education activity courses to the minimum degree requirements of 132 semester hours. Specific requirements are outlined in the sections which follow.

Intent to Graduate

Intent to graduate forms are filed with the Graduation Analyst in The Fogelman College of Business and Economics (BB 357). Students are requested to schedule an appointment before the established application deadline published in each current *Bulletin* or *Schedule of Classes*. Deadlines are strictly enforced. At this time, an audit of the prospective graduate's academic record is conducted, and the applicant will be provided with an official graduation agreement indicating the remaining degree requirements.

Transfer Credits

A student transferring credits from a two-year collegiate institution must complete a minimum of 60 semester hours in

an accredited senior institution. If a student transfers credit in required business courses which are classified as upper division level courses in this College but were taken as lower division credit or taken at a two-year institution, these courses will be repeated or validated by examination.

General Requirements

General requirements for the degree include the successful completion of the following:

I. REQUIRED COURSES IN THE LOWER DIVISION

A degree seeking student whose major is in The Fogelman College of Business and Economics is expected to complete all of the required Lower Division (LD) course work before enrolling in any of the Upper Division (UD) courses offered in this college.

(Figures in parentheses indicate semester hours credit. One-semester courses may be taken either semester.)

FRESHMAN

ENGL 1101 (See Note A)	ENGL 1102 (See Note A)
Natural Science w/lab (3-4) (See Note B)	Natural Science w/lab (3-4) (See Note B)
One of the following: COMM 1211, 1311, or THEA 1411	PSYC 1101, SOCI 1111, POLS 1100, or ANTH 1401
MGMT 1010 (See Note C)	MATH 1203 (See Note F)
PHED Activity (See Note D)	PHED Activity (See Note D)
Non-Business Elective (See Note E)	Humanities (See Note H)
17-18	17-18

H. Select one of the following (3 hours): ART 1101, MUSI 1101, THEA 1551, HIST 1301 or 1302, PHIL 1111, or a foreign language.

II. REQUIRED CORE COURSES IN THE UPPER DIVISION (COURSES NUMBERED 3000-4999):

Every student enrolled for the degree of Bachelor of Business Administration must complete successfully the following courses and select two Upper Division (UD) Business Administration (BA) electives. See exception below.

Students seeking Bachelor of Business Administration degree must have a grade of "C" or better in each of the required Core courses in the Upper Division (courses numbered 3000-4999).

(PREREQUISITE: JUNIOR STANDING)

ECON 4111	Managerial Economics	(3)
FIR 3011	Business Law	(3)
FIR 3130	Social and Political Environment	(3)
FIR 3410	Business Finance	(3)
MGMT 3110	Organization and Management	(3)
MGMT 3010	Business Policy	(3)
OFAD 3510	Basic Marketing	(3)
**UD BA	Business Communications Electives (See Advisor)	(3)
		(6)
TOTAL		30

*Course not to be taken before last or next to last semester before graduation.

*EXCEPTION: Accounting majors and Marketing majors with an Agrimarketing concentration are required to take only one UD BA elective.

III. THE MAJOR

With the assistance of his advisor, each student not later than the beginning of his junior year, will select a major and an area of concentration within the major. The specific courses required by each department for the satisfaction of its majors are listed in the section that follows.

IV. SAMPLE SCHEDULE

The following sample schedule of courses is suggested for students completing their junior and senior years. A sufficient number of general electives (business and non-business, either lower or upper division courses) are to be selected by each BBA student to complete the minimum of 132 semester hours required for graduation.

JUNIOR

FIR 3011	(3)	Major	(3)
FIR 3410	(3)	Major	(3)
MGMT 3110	(3)	FIR 3130	(3)
MKTG 3010	(3)	OFAD 3510	(3)
U.D. Business Elective OR	(3)	General Elective	(3)
*ACCT Majors: ACCT 3110 (See Note)		Non-Business Elective	(3)
	15		18

SENIOR

Major	(3)	Major	(3)
Major	(3)	Major	(3)
Major	(3)	MGMT 4710	(3)
ECON 4111	(3)	General Elective	(3)
U.D. Business Elective	(3)	General Elective	(3)
	15		18

*NOTE: Accounting majors and Marketing majors with an Agrimarketing concentration need one less U.D. business elective.

V. THE MINOR

A student majoring in The Fogelman College of Business and Economics is not required to have a minor; however, such an option is available.

A student majoring in one of the other colleges of the University may take a minor in one of the departmental areas. (See Residence Requirements for The Fogelman College of Business and Economics.)

PRE-PROFESSIONAL BUSINESS ADMINISTRATION MINOR

The Fogelman College of Business and Economics offers a pre-professional minor (27 hours) for students whose major is in another college of the University. Requirements are as follows:

ACCT 2010, 2020	FIR 3410
ECON 2110, 2120	MGMT 2710, 2750, 3110
FIR 3130	MKTG 3010

Prerequisites: Accounting, Economics, and junior standing are prerequisites for 3000 level courses.

VI. CERTIFICATE IN ENTREPRENEURSHIP

The Certificate in Entrepreneurship is awarded to a student upon completion of the following courses with a grade of C or better: MGMT 4810, ECON 4340, FIR 4110, and BA 4100 (6 hours). The total number of hours for the certificate is 15. Prerequisites to these courses are: ACCT 2010, 2020; ECON 2110, 2120; FIR 3410; MGMT 2710, 2750, 3110; MKTG 3010.

DEPARTMENTAL REQUIREMENTS FOR MAJORS AND MINORS

Department of Accountancy

The Department of Accountancy offers a comprehensive background in accountancy; area specialization (tax, public accounting, managerial) may be obtained at the graduate level. An accounting major or minor must have a grade of C or better in every course attempted in the Department of Accountancy.

ACCOUNTING

The Major: ACCT 2720 (Laboratory) and 24 upper division semester hours in accounting courses as follow:

ACCT 3110 and 3120, 3310, 3510, 4210, 4240, 4450, 4610.

The Minor: For students whose major is in another college of the University:

ACCT 2010, 2020, 2720, 3110, 3120. One of the following: 3010, 3310. One of the following: 3510, 4210, 4240, 4450.
--

For students whose major is in another department in The Fogelman College of Business and Economics:

ACCT 2010, 2020, 2720, 3110, 3120. One of the following: 3010, 3310.
--

from the program are those desiring to enter a graduate program requiring all or some of these courses as prerequisites.

The Tennessee State Board of Accountancy requires that applicants for the CPA exam have either an accounting degree or a non-accounting degree plus credit for 24 hours of accounting course credit. The CPA Preparation Program offers a feasible means of attaining credit for these specific courses: ACCT 2010, 2020, 3110, 3120, 4210, 3510, 3310, 4240. NOTE: An additional 12 hours is required by the Board from the areas of economics, computers, business law, money and banking, mathematics, or statistics. Applicants who lack previous credit in these areas should discuss with the Program director the alternative means available for obtaining that credit.

Because of prerequisite requirements, several of these courses must be taken in sequential order. Accordingly, the time normally necessary to obtain credit for these 24 hours can be substantial. By offering these courses sequentially in seven week segments, the program allows participants to earn 24 hours credit in thirteen and one-half months instead of the two or more years equivalent instruction might involve. Additionally, the course schedule requires only two evenings per week and consistency in schedules is maintained from course to course. Classes are held on Tuesday and Thursday evenings, 6:00 P.M. to 9:00 P.M. Each course is seven weeks (14 meetings - 42 class hours) in length. The eight-course sequence generally begins each September and January with Fundamentals of Accounting 2010. If a person has credit (at least a C) for one or more of the courses, that person can begin the program with the next course in the sequence, or, to refresh the memory, can retake on an "audit" basis the courses for which a grade has been previously earned.

Interested candidates for the Program should contact the Program Director, Department of Accountancy in The Fogelman College of Business and Economics.

FIVE YEAR DEGREE PROGRAM IN ACCOUNTING

The Department of Accountancy also offers a five-year professional accounting program resulting in the awarding of the B.B.A. degree and Master of Professional Accountancy (M.P.Acc.) degree upon the satisfactory completion of five years of study.

Required Courses in the Lower Division: in addition to the lower division courses listed for a major in the Fogelman College of Business and Economics, the following additional course is required: MATH 1312.

Admission Standards: For a student to enter the program, the student may apply for admission if the average of the lower division work described above if an overall grade point average of 2.5 and an average of 3.0 in accounting courses has been earned.

Required Core Courses in the Upper Division: the required courses in the upper division for the B.B.A. PHIL 4513; ECON 4120 or FIR 4440, and two of the following: MGMT 3750, 3760, 4790.

The Major in Accountancy: the 24 semester hours in the Accounting major listed above.

Retention Standards: an overall grade point average of 2.75 and an average of 2.75 in accounting courses by the end of the sixth semester; an overall grade point average of 3.0 with an average of 3.5 in accounting courses by the end of the eighth semester

Admission to Fifth Year of Study: upon completion of all of the above requirements the student is eligible to be admitted to the fifth year of study in graduate school upon satisfying the requirements of the Higher Education Admission Test (GMAT). Note that a student that does not elect to enter the fifth year of study, the B.B.A. degree in Accounting will be awarded to those who have completed all of the above requirements for graduation.

Graduate Accounting Requirements: see the Memphis State University Graduate Bulletin.

and property-liability insurance and their relationships to the other disciplines in business administration. The insurance program is also designed as preparation for parts of the CPCU and CLU examinations.

- Real Estate majors will be provided the basic theories and practices of urban land use and economics. Exposure will be to real estate principles, valuation, investment analysis and finance, legal environment, and development.

FINANCE

The Major: A minimum of 21 upper division semester hours in courses as follows:

FIR 3710, 3720, 4440, 4610, and nine additional upper division hours in courses selected with the approval of the advisor.

The Minor:

For the student whose major is in The Fogelman College of Business and Economics:

Nine upper division hours in finance approved by the department chairman.

For the student whose major is within another college of the University:

ACCT 2010 and 2020; ECON 2110, 2120, 3610; FIR 3410, 3710. Three additional upper division hours approved by the department chairman.

INSURANCE

The Major: A minimum of 21 upper division semester hours in courses as follows:

FIR 3810, 4810, 4820, and a minimum of twelve additional upper division hours in courses selected with the approval of the advisor.

The Minor:

For the student whose major is in The Fogelman College of Business and Economics:

FIR 3810 and six additional upper division hours in insurance approved by the department chairman.

For the student whose major is within another college of the University:

ACCT 2010; ECON 2110; FIR 3011, 3130, 3810, and six additional upper division hours in insurance approved by the department chairman.

REAL ESTATE

The Major: A minimum of 21 upper division semester hours in courses as follows:

FIR 3310, 4310, 4320, 4340, 4350, and a minimum of 6 upper division hours in courses selected with the approval of the advisor.

The Minor:

For the student whose major is in The Fogelman College of Business and Economics:

FIR 3310 and six additional upper division hours in real estate approved by the department chairman.

For the student whose major is within another college of the University:

ACCT 2010; ECON 2110; FIR 3011, 3130, 3310, and six additional upper division hours in real estate approved by the department chairman.

ECONOMICS

The Major (B.A., College of Arts and Sciences): A minimum of 21 upper division semester hours in courses as follows:

ECON 3310, 3320, 3310 and four additional upper division courses selected with the approval of the department advisor.

The Major (B.A., College of Arts and Sciences): The student will be required to meet the requirements for the Bachelor of Arts in Economics. Courses include ECON 1010 or 2110, 2120, 3310, 3320, and five additional upper division courses, for a total of 30 semester hours, selected with the approval of the department advisor.

The Minor: For students whose major is in another college of the University:

18 semester hours in economic courses, including ECON 1010 or 2110, 2120, 3310, 3320, and 6 additional upper division hours in courses as approved by the department advisor.

For students whose majors are in The Fogelman College of Business and Economics:

Nine additional upper division hours in economics approved by the department advisor, including 3310 and 3320.

Honors Program:

All students who receive a grade of B or better in ECON 2130 or 2140 are eligible for the program. Entry to the program can be obtained through the recommendation of a member of the faculty in the Economics Department Honors Committee. A student must maintain an average grade of at least 3.25 in economics to continue in the program and must have an average grade of 3.5 or better in all courses taken in the Economics Department. Honors students take special courses during the junior and senior years, particularly the honors sections of ECON 3310 and 3320, and write a senior research paper.

At the completion of the program, the student will receive "with honors in Economics". Details of the program are available at the Economics Department office.

Department of Finance, Insurance, and Real Estate

The primary objective of the department is to provide the basic concepts, principles and analytical tools essential for business decisions in the fields of finance, insurance and real estate. The department curriculum is designed to provide a broad background for effective functioning within each discipline or in related business and governmental fields. More specifically:

- Finance majors study the environment, theory and techniques of decisions on the acquisition and allocation of funds by business firms, including the applied areas of investment and financial institutions.
- Insurance majors study risk theory, risk management, life, health,

Department of Management

The effective manager of today must have competence in many disciplines, an understanding of a wide variety of relationships, and the ability to analyze evolving management requirements. Regardless of his functional speciality, the professional manager must also be a leader of people who knows how to put together and motivate groups of people serving the goals of the organization.

Effective adaptation of management to such emergent conditions as the continued growth of science and technology, populations, and large scale organization demands a thorough grasp of management process theory including planning, organizing and motivation, and controlling of operations.

The management curricula include the following areas: (1) general management; (2) personnel administration and industrial relations; (3) production man-

agement; and (4) quantitative methods and business systems.

Students selecting the area of general management will focus on integration of operations and environments. This option is designed for those students who desire a program which allows for flexibility in the choice of careers in management.

The personnel administration and industrial relations option covers the traditional areas of personnel, collective bargaining, labor legislation, wage and salary administration. Also developments in the behavioral sciences are included in this area.

The production and operations management option is concerned with planning and operations systems to yield products and services. Production operations in non-manufacturing industries are considered as well as those of manufacturing firms.

Quantitative methods and business systems involve the use of mathematical and statistical techniques to solve business problems. Such techniques often require the utilization of computers for their solution. Thus this curriculum incorporates three related areas of study: Statistics, mathematical methods (operations research), and computer utilization.

MANAGEMENT

The Major: a minimum of 21 upper division semester hours, including MGMT 3510, 4420, and courses as listed in the following concentration areas.

GENERAL MANAGEMENT

MGMT 4210, 4790, ACCT 3010. The remaining 6 hours of the 21 hour minimum for the major will be selected from any upper division semester hours in Management or any 3 upper division hours in Management and one of the following courses in the following courses with a minimum of one in any department: ACCT 3310; ECON 3610; FIR 4440; MGMT 3140, 3610.

PERSONNEL ADMINISTRATION AND INDUSTRIAL RELATIONS

MGMT 4210, 4790, 4230, 4240. The remaining 3 hours of the 21 hour minimum for the major will be selected from the following courses: MGMT 3215; ECON 3210; PSYC 3502 (Note: Prerequisites PSYC 2301, 3101, 3508; TECH 3386.

PRODUCTION MANAGEMENT

MGMT 4510, 4511 and at least one of the following is required: ECON 3310, 3320, 3330, 3340, 3350. The remaining 21 hours minimum required for the major will be selected from the following courses: MGMT 3760; ACCT 3010, 3310; ECON 4120; MGTG 4220.

QUANTITATIVE METHODS AND BUSINESS SYSTEMS

MGMT 3750, 3760, 3780, 3755, 4780.

The Major for the student whose major is within another college of the University:

MGMT 3110, 3510, 4420, and 9 additional semester hours, at least 6 of which must be in management and the remainder in the Foggelman College of Business and Economics.

For students whose major is in other departments in The Foggelman College of Business and Economics:

MGMT 3510, 4420, and 3 additional semester hours of upper division coursework in management.

Department of Marketing

The objective of the Department of Marketing is to provide a broad concept of the marketing process and to develop an understanding of all the factors involved in the assembly and distribution of goods and services. Marketing majors may choose from among six areas of a concentration as outlined below. Emphasis is placed upon the practical application of marketing concepts. This

approach teaches entry level skills while preparing for future advancement to top positions in marketing management.

A marketing major or minor must have a grade of "C" or better in every marketing course attempted.

MARKETING

The Major: a minimum of 21 upper division semester hours in marketing courses (Agemarketing concentration requires 24 upper division semester hours), as follows:

MKTG 3012, 3610, 4080, 4901. One of the marketing courses below (3 hours must be 4000 level): ADVERTISING (Marketing Communications) Mass communication media, advertising agencies, advertising departments, advertising decisions, and other advertising activities. MKTG 3140, 3710, 4150.

TRANSPORTATION AND LOGISTICS: Background for careers with transportation companies, industrial firms or governmental agencies. Topics among the nation's transportation system, the role logistics net work, and public policy. Total of nine hours selected from these courses:

3-6 hours from: MKTG 3620, 3630 plus 3-6 hours from: MKTG 4510, 4620, 4692.

GENERAL MARKETING: Allows a concentration in marketing without specialization. (A minimum of 9 semester hours, at least 3 hours at the 4000 course level): MKTG 3140, 3320, 3620, 4410, 4530.

RETAILING: Background in the operation and management of retail establishments. MKTG 3320, 3330, 4330.

SALES: Field of sales from basic salesmanship through sales management, both theoretical and practical aspects. MKTG 3310, 3320, 3330, and 6 hours from one of the following courses: MKTG 4120, 4420, 4530.

AGRMARKETING: (12 hours) Careers in marketing in the non-farm business industry. MKTG 3170, 4720, 4750, and FIR 3770. Note: agemarketing concentration requires 24 upper division BA electives and six hours of natural science with lab, among the following courses: BIOL 1001, 1002, 1600, 1650, 3050; CHEM 1051, 1052, 1111, 1112. Students in this concentration are encouraged to select courses in Geography and/or Geology as general electives.

The Minor:

For the student whose major is in another college of the University:

ACCT 2010, ECON 2110; and either

(1) MKTG 3010, 9 semester hours from the marketing core: MGMT 3110, 3510, 4420, 4901; and 6 hours from one of the marketing areas of concentration upon approval of the department chairman.

OR

(2) MKTG 3010, 3 hours from the following courses: MKTG 3012, 3610, 4080; and any 9 hours of marketing courses approved by the department chairman.

For the student whose major is in The Foggelman College of Business and Economics:

Twelve (12) hours of marketing courses approved by the department chairman.

Department of Office Administration

The objectives of the Department of Office Administration are to provide a broad background for an executive secretarial role in business; to provide the opportunity for sufficient competency to enter and advance in the area of office management; and to provide the opportunity for the specialization and certification for the graduate to teach business education in the secondary schools.

The student planning to major in office administration will take in his freshman year OFAD 1210 and 1220, Elementary Typewriting and Intermediate Typewriting. If he has had previous training in typewriting, he will omit 1210 and take 1220 and a higher-numbered typewriting course, or one semester of an approved elective.

The student planning an area of concentration in office administration-secretarial will take in his sophomore year OFAD 2120 and 2130, Fundamentals of Shorthand and Intermediate Shorthand. If he has had previous training in shorthand, he will omit 2120 and take 2130 and a higher-numbered shorthand

course, or one semester of an approved elective. Students planning an area of concentration in office administration-management may omit shorthand from their programs.

No more than three courses (9 semester hours) in typewriting may be applied toward satisfaction of the degree requirements by a student with high school credit in typewriting.

A student must earn a grade of C or better in typewriting or shorthand courses before he can register for the next course in the subject.

OFFICE ADMINISTRATION

The Major (Legal Assistant): a minimum of 60 semester hours is required.

27 hours as follows ENGL 1101, 1102; ACCT 2010, 2020; COMM 1311; HIST 1601, 2602; 3 hours in a non-business elective; and 3 hours in one of the following: PSYC 1101, SOC 1111, POLS 1100, or ANTH 1100.

31 hours as follows: Add 12 hours as follows: OFAD 2210, 2211, 2212, 2213, 2214, 2215, AND five of the following OFAD 2216, 2221, 3217, 3218, 3219, and 3220.

The Major (Legal Office Management Concentration): in addition to the 33 semester hours in Office Administration courses listed above for the Legal Administration Certificate, a minimum of 21 upper division hours in courses as follows: OFAD 3250, 4330, 4340, 4350, 4410, CIUS 3521, 3522.

The Major (Secretary Concentration): a minimum of 21 upper division semester hours of Office Administration courses as follows: OFAD 3140, 4370, 4375, 4330, and two of the following courses, selected in conference with advisor: OFAD 4161-63, 4340, 4410, 4420.

The Minor (Secretary Concentration):

For the student whose major is in another college of the University:

OFAD 1210, 1220, 2120, 2130, 3140, and upper division hours in two or three additional courses in office administration approved by the department chairman.

If the student has demonstrated proficiency in either typewriting or shorthand, he may omit either OFAD 1210 or 2120, thus reducing the hours required for the minor from 21 to 18, a minimum of 18 semester hours is required.)

For the student with a major in other departments of The Foggelman College of Business and Economics:

Upper division hours in three additional courses in office administration approved by the department chairman.

The Major (Managerial Concentration): a minimum of 21 upper-division semester hours of courses as follows: OFAD 4210, 4330, 4410, 4420; ACCT 3010; and two of the following courses, selected in conference with advisor: MGMT 4210, 4420, 3750, FIR 4610, MKTG 4330.

The Minor (Management Concentration):

For the student whose major is in another college of the University:

ACCT 2010, 2020; ECON 2110, 2120; OFAD 3510, 4410, and upper division hours in two additional courses in office administration approved by the advisor.

For the student with a major in other departments of The Foggelman College of Business and Economics:

Upper division hours in three additional courses in office administration approved by the department chairman.

THE PROGRAM IN INTERNATIONAL BUSINESS

ASSOCIATE PROFESSOR JOHN J. REID,
Advisor

Business Administration 426C

The primary objective of the International Business Program is to provide a broad interdisciplinary background for a career in international business. Through the study of theoretical and practical aspects of the operations of international and multinational business and through work in several liberal arts disciplines, the graduate of this program should be prepared, after receiving a minimum orientation training in a particular international firm, to apply his knowledge to the solution of problems faced by the company.

INTERNATIONAL BUSINESS

The Major

The student majoring in International Business must complete the same courses required of all students working toward the B.B.A. degree. For additional requirements during the sophomore and junior years, see the International Business advisor. Students majoring in International Business are required to take six credit hours in foreign language. It is also strongly suggested that the students take more than six hours of courses meeting at the intermediate level. The Fogelman College of Business and Economics and the University for the B.B.A. degree and also meeting the language requirements established by the Foreign Language Department for a minor in Foreign Language will be conferred a B.B.A. degree with a major in International Business and a second major in Foreign Language.

In his senior year, the student will take 21 semester hours in courses offered by The Fogelman College of Business and Economics, distributed as follows: 15 semester hours

(5 courses) from the following group

ACCT 4310, International Accounting
 BA 4000, Internship in International Business
 ECON 4340, Comparative Economic Systems
 ECON 4350, International Economics
 FIR 4510, International Finance
 MGMT 4810, International Management
 MGMT 4530, International Marketing
 6 semester hours (2 courses) from the following group:
 ECON 4340, Economic Forecasting
 FIR 4440, Managerial Finance
 MGMT 3760, Operations Research
 MGMT 4780, Systems Design for Business Activities
 MKTG 4580, Marketing Research

Two courses from the College of Arts and Sciences are also required in the senior year. See the advisor.

For the student who is majoring within The Fogelman College of Business and Economics:

Nine hours from the following courses with the approval of the International Business advisor: ACCT 4310, BA 4000, ECON 4340, 4350, FIR 4550, MGMT 4810, MKTG 4530.

For the student who is majoring within another college of the University:

The student will take a minimum of 18 hours within The Fogelman College of Business and Economics, at least 9 hours of which must be chosen from the following: ACCT 4310, BA 4000, ECON 4340, 4350, FIR 4550, MGMT 4810, MKTG 4530.

The necessary prerequisites for the above courses are in parentheses below

ACCT 4310 (ACCT 2010, 2020); BA 4000 (Consent of the International Business advisor); ECON 4340 (ECON 2120); ECON 4350 (ECON 2120); FIR 4550 (FIR 3410 or consent of instructor); MGMT 4810 (MGMT 3110); MKTG 4530 (MKTG 3010).

The College of Communication and Fine Arts

RICHARD R. RANTA, B.S., M.A., Ph.D., Dean
 Room 232, Communication Fine Arts Building



ACADEMIC PROGRAMS

Department	Major	Concentration Within Major	Degree Offered
Art	Art	(1) Art Education (2) Graphic Design (3) Interior Design (4) Ceramics, Painting, Sculpture, Printmaking (5) Design	Bachelor of Fine Arts (B.F.A.)
	Art History		Bachelor of Arts (B.A.)
Journalism	Journalism	(1) Advertising (2) Broadcast News (3) News Editorial (Magazine) (Newspaper) (Photojournalism) (4) Public Relations	Bachelor of Arts (B.A.)
Music	Music	(1) Brass Instruments (2) Church Music (Choral) (Organ) (3) Composition (4) Music History (5) Music Theory (6) Organ (7) Percussion (8) Piano and/or Harpsichord (Chamber Music) (Pedagogy) (Performance) (9) Strings (10) Voice/Opera (Voice) (Opera) (11) Woodwinds	Bachelor of Music (B.M.)
	Commercial Music	(1) Music Business (2) Recording Engineering	Bachelor of Fine Arts (B.F.A.)
		(1) Studio/Live Performance (2) Composition/Arranging	Bachelor of Music (B.M.)
Theatre and Communication Arts	Theatre and Communication Arts	(1) General Speech and Theatre (2) Broadcasting (3) Communication (4) Film and Videotape Production (5) Theatre	Bachelor of Arts (B.A.)
	Theatre	(1) Performance (2) Production (3) Dance	Bachelor of Fine Arts (B.F.A.)

PHILOSOPHY

The College of Communication and Fine Arts is ultimately focused upon visual and audible symbols, whose rational and emotional values it is the mission of the college to create and explore. In the belief that perception is largely shaped by experience, the College of Communication and Fine Arts offers a range of symbolically rendered experiences, both individual and collective, in the hope of broadening and sensitizing the perceptions of its students.

The kind of symbolic experience which communicates emerges when, in Ruskin's phrase, "the hand, the head and the heart of man go together." Students in The College of Communication and Fine Arts receive individual and small group instruction toward this end. In the hope of furthering the capacity to impose a pattern on experience and to recognize the patterns offered by others, students

of the college are additionally exposed to courses drawn from a broad base of the liberal arts.

The faculty of the college represents a diversity of academic and artistic backgrounds and interests, reflected not only in its teaching, but also in research and creative activities. It is a faculty united in the attempt to maintain the highest standards in both classroom and studio work, standards which find their limits at last only in the mystery and wonder of the human experience from which they rise.

PURPOSES

The College of Communication and Fine Arts has four primary functions. First, it offers courses of study aimed at preparing its students to work toward careers in the fine or applied arts, communications, or the performing arts, whether as practitioners, teachers, artists, or consultants. Second, the college

affords broad exposure and instruction in fine arts and communication to students of other colleges in the University whose degree programs may be enhanced by such exposure. Third, with a view toward individual professional growth as well as general cultural enhancement, the college vigorously promotes both scholarly research and artistic production on the part of its faculty. Finally, the college seeks to enrich the cultural atmosphere of both the University and the community at large through a continuing variety of public programs, to include art exhibitions, media presentations, dramatic productions, concerts, recitals, lectures, seminars, debates, workshops, festivals, and the like.

Through the diversity of these constituent elements, the college reflects the wide compass of opportunity and challenge facing the communicative artist and scholar. Ultimately it is our goal to foster a more intense and profound awareness of the broad range of human experience from which the college derives its pertinence and vitality.

ORGANIZATION

The College of Communication and Fine Arts comprises four academic departments: Art, Journalism, Music, and Theatre and Communication Arts. The requirements for the majors and minors offered by these departments are listed later in this section.

ADMISSION

The requirements for admission to the College of Communication and Fine Arts are those established by the University as a whole; see section 2, *Admission to the University*. See the descriptions of the specific degree requirements for any special admissions requirements.

RESIDENCE REQUIREMENTS

University residence requirements are explained in detail in section 6, *Graduation from the University*. A transfer student in the College of Communication and Fine Arts must earn at least 6 semester hours in residence in his major subject and at least 3 semester hours in his minor. These credits may be earned only through regular class enrollment for a letter grade.

TEACHER PREPARATION

Students enrolled in a degree program of The College of Communication and Fine Arts who wish to prepare themselves for teaching careers in the secondary schools of Tennessee may meet the state certification requirements while pursuing their chosen majors. Detailed certification requirements are outlined under Requirements for Teacher Certification in section 7, *Graduation from the University*. An application to enter the teacher education program must be filed with the education analyst, room 215 The College of Education.

DEGREE REQUIREMENTS

Degrees Offered

A student may earn a Bachelor of Fine Arts, Bachelor of Music, or Bachelor of Arts degree, by majoring in one of the four departments which comprise The College of Communication and Fine Arts. Requirements for the Bachelor of Fine

Arts and the Bachelor of Music degrees are outlined later in this section. The Bachelor of Music Education degree is jointly administered with The College of Education. Requirements for this degree are outlined with descriptions of majors for The College of Education. The following is an outline by departments of all majors and concentration areas offered by the departments in the College of Communication and Fine Arts.

A minimum grade of C is required in every course applicable toward a major or minor.

Every student should be aware that the mere completion of courses outlined below with a grade of C or better does not guarantee him classification as a major or minor in the discipline concerned; he must be recommended by the chairman of the department in which the major or minor is sought. If, in the opinion of the chairman, the quality of the student's work is not high enough, he may require additional work, the repetition of courses, or other evidences of superior scholarship.

Elective credit in the College of Communication and Fine Arts may be granted for validated learning from experience or non-traditional instruction. Guidelines for this procedure may be obtained in the office of the Dean of the College of Communication and Fine Arts.

The college requires a minimum of four semester hours of physical education activity courses, one-half of which minimal requirement may be satisfied by two semester hours of Marching Band. A student may elect to take the courses on a credit/no credit basis. Only students in the following programs may apply more than 8 semester hours of Physical Education toward the specified minimum degree requirement: B.F.A. Theatre major with a concentration in Performance or Dance, B.A. Theatre major, Theatre or Dance minor. Activity courses offered by the Department of Theatre and Communication Arts with the prefix DANC (1000 level) may be taken to fulfill physical education requirements.

BACHELOR OF FINE ARTS (IN ART)

The Bachelor of Fine Arts in Art is a professional degree, the requirements for which provide the student with a greater opportunity for specialization in art than he has under the other baccalaureate programs; for this degree a total of 142 semester hours is required for graduation, 90 of which must be in professional course work. A minimum of 42 upper division semester hours is required for this degree. A minimum grade of C is required in all art courses; the student must maintain an overall quality point average of 2.0. The specific degree requirements are divided into five groups: (1) general education, (2) basic art courses, (3) courses in one of the five concentration areas, (4) elective courses in art and (5) elective courses other than art to bring the total to 142 semester hours.

1. General Education Courses

English: ENGL 1101, 1102 with a minimum grade of C and two of the following: 2101, 2102, 2103, 2104, 2105, 2106.

Humanities: One semester course to be chosen from communication, English, foreign languages, history, music, history, philosophy, or theatre history.

History: HIST 2601, 2602.

Natural/Physical Sciences: One semester course (A sequence is required for those students with a concentration in Art Education and who are seeking state certification) in biology, chemistry, GEOG 1101, 1102; GEOG 1101, GEOG 1101; GEOG 1101, 1201; PSCI 1031, 1032.

Mathematics: One-semester course (3 semester hours) MATH 1181, 1182, 1203, 1211, or 1212; or PHIL 1611

Physical Education: for details see section 6, *Graduation from the University*.

2. Basic Art Courses (39 hours)

ART 1311, 1314, 2313, 1201, 1204, 2201, 2202; 2101, 2102.

Art History: 12 upper division semester hours in art history courses; no more than 3 hours of museum studies may be used to satisfy this requirement. (Students in Art Design are required to take ART 3103, 3104 in Art Design; students are required to take only ART 4167 and 4168.)

3. Concentration Areas:

a. Ceramics, Painting, Printmaking, and Sculpture (42 hours):

ART 2314, 4321; 3523, 3524, 4521, 4522; 2351, 3351, 4351; 2511, 3511; 4311, 3331, 3332, 4331, 4332.

NOTE: Selection of fourteen (14) appropriate courses from the nineteen (19) courses listed above.

b. Graphic Design (42 hours):

ART 2314, 2221, 2312, 2351; 3221, 3222, 4221, 4222; 3223, 3521, 4221, 4223, 4321, 4421, 4611.

c. Interior Design (42 hours):

ART, 2323, 2324, 2312, 3233, 3234, 3235, 3236, 3237, 3238, 4237, 4238, 4239, 4240, 4611.

d. Art Education (51 hours):

ART 2314, 3523, 4321, 4322, 4424, 3411, 3413, 3421, 4421, 4422, 4423, 4424, 4521, 4522, 4523, 4524, 4525, EDPS 2111, 3121; SPER 2000, SCED 4411, 4841.

(Art education majors must also complete all general education courses outlined in section II of the Requirements for Teacher Certification as listed.)

e. Design: 39 hours

2312, TECM 1611, ART 2701, 3240, 4201, 4202, 4205, 4206, 4207, 4208, 4611, 4621, 4622.

4. Art Electives to complete the total of 90 semester hours.

5. Elective Courses other than art to complete the total of 142 semester hours. These courses will be chosen by the student in consultation with his advisor and the chairman of the Department of Art.

BACHELOR OF FINE ARTS (IN COMMERCIAL MUSIC)

The Bachelor of Fine Arts in Commercial Music is designed for students whose interest and abilities give strong evidence of potential for significant achievement while working with the business or recording areas of the music industry. Two concentrations are offered: I. Music Business and II. Recording Engineering.

Admission: An interview is required of all students entering this program in order to gain an appreciation of the student so that preliminary estimates of student commitment and potential success can be made. One or more representatives of the Music Industry Advisory Board will be invited to participate in the preliminary assessment. Stringent quality control is essential. Upon admission, the student will be assigned a faculty advisor.

Experiential Learning: Credit may be awarded for validated learning experience or nontraditional instruction. Students who wish to apply for credit for experiential learning may obtain guidelines for this procedure from the Dean of the College of Communication and Fine Arts. (See Section 3, *Fees and Charges*, for related fee information.)

Remaining in the Program: The student's progress and continued potential will be reviewed at the conclusion of each semester by the faculty in Commercial Music. Academic excellence and personal commitment to a career in the music industry as evidenced by involvement in projects of the student's own invention apart from classroom assignments will also be assessed.

Graduation from the Program: For the B.F.A. in Commercial Music, 142 semester hours are required for graduation. A minimum grade of C and an average GPA of 3.0 are required in Commercial Music and Business courses.

1. GENERAL EDUCATION COURSES

English: ENGL 1101, 1102 (with a minimum grade of C and two of the following: 2101, 2102, 2103, 2104, 2105, 2106)

Humanities: six semester hours to be chosen from communications, English, foreign languages, history, theater history, philosophy, or art history (6)

History: HIST 2601, 2602

Natural/Physical Sciences: (sequence not required) (6)

Mathematics: MATH 1213 or higher (3)

Physical Education: for details see Section 6, *Graduation from the University*. (4)

2. COMMERCIAL MUSIC CORE (49-51 hours)

3. CONCENTRATION AREAS

a. Music Business (39 hours):

ACCT 2020; COMM 2213, 2221, 3223; COMM 4811; COMM 4820; COMM 4821, 3130, 3101, 3823, 4898 or 4899; two of the following: COMM 3824, 4831; JOUR 2300, 3400; CJUS 3152, 4233

b. Recording Engineering (39 hours):

CMUS 3800, 3801, 4800, 4801, 4802, 4803, 4804, 4805; COMM 3821; three of the following: ACCT 2020, COMM 2213, 2221, 3223; COMM 4811, 4820, 4821, 4822, 4823, 4824; MGMT 2750, 2751, 3110; MKTG 3010; COMM 3011.

4. ELECTIVES

Elective courses to bring the total to a minimum of 142 hours. These courses will be chosen by the student in consultation with the advisor and major professor.

BACHELOR OF FINE ARTS (IN THEATRE)

The Bachelor of Fine Arts degree is a program specifically designed for students whose *certain* interests and abilities strongly suggest the potential for pursuing careers as professional artists in the resident, professional, or academic theatre. To expand the student's creative powers and deepen his commitment to a vocation in the theatre, the B.F.A. program offers the student (1) a basic probing of all the arts and crafts of the theatre; (2) an exploration in depth of one area of special interest; (3) the opportunity to participate creatively as a theatre artist through extensive production experience. Three areas of specialization are offered: I. Performance, II. Production, and III. Dance. Students entering the B.F.A. program will elect one of these three areas for concentrated study. The student will normally begin his specialized training at the end of the sophomore year.

Admission: Admission to the B.F.A. program in Theatre Arts is based on selective procedures.

Entrance into the Performance area is based on auditions and interview. The audition/interviews are held twice yearly, near the end of each semester. The

audition will consist of two scenes of approximately two minutes duration each for a total of no more than five minutes. The scenes should be from plays of distinctly different styles and/or periods.

Following a group of scenes, a critique session will be held. Applicants will be notified within a few days that they have been accepted into the program, accepted for one more semester on a probation basis, or advised to pursue another degree program.

An interview is also required for admission to the Production area. The student will submit a portfolio of his graphic work. This may consist of sketches, costume plates, elevations, light plots, ground plans, etc.

Remaining in the B.F.A. Program: The fact must be emphasized that admission to the B.F.A. curriculum does *not* imply a student's permanent tenure in the program. At the end of each semester the student is expected to audition and his work will be assessed by the theatre faculty. His artistic growth, his development of technical facility, his continuing commitment to creative excellence—all will be evaluated. Permission to continue in the program will be based upon his evaluation.

Transfer of Credit: In certain cases students may be admitted to an advanced level of the B.F.A. training program. Such admission will be based upon: (1) an audition and interview; (2) the student's previous course work in theatre, particularly in the area of his special interest; (3) the student's previous involvements in production experience; (4) letters of recommendation from former Theatre Arts instructors and/or directors. Even if admitted to an advanced standing, the student will be required to remedy previous course deficiencies.

Advising: Upon admission to the B.F.A. program, each student will be assigned a faculty advisor. For this degree, 136 semester hours are required for graduation. A minimum grade of C is required in all theatre courses; the student must maintain an overall quality point average of 2.0.

1. GENERAL EDUCATION COURSES

English: ENGL 1101, 1102 (with a minimum grade of C and two of the following: 2101, 2102, 2103, 2104, 2105, 2106) (12)

Humanities: Six semester hours to be chosen from communications, English, foreign languages, history, theater history, philosophy, or art history.

History: HIST 2601, 2602

Natural/Physical Sciences: (Sequence not required) (6)

Mathematics or PHIL 1611: (3)

Physical Education: (THEA 2501 or

2502) may be substituted for one (1) P.E. course) (4)

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2. BASIC THEATRE CORE COURSES (36 hours):

THEA 1411, 1551, 1561, 2501, 2511 or 2512, 2531, 3412, 3541 (2 hours), 3542 (4 hours), 4551 or 4552, and COMM 1781.

3. CONCENTRATION AREAS

Performance, Production, and Dance: Individual production experience to be determined in conference with student's advisor and then submitted as a Plan of Study to the Director of Theatre for approval. Emphasis in specific areas (acting, stage movement, dance, directing, lyric theatre, oral interpretation,

playwriting, design, theatre technology, management) will determine sequence structure. **FOR EXAMPLE:**

a. Performance (with advisor):
THEA 1212, 2501, 2532, 3411, 3451, 3505, 3506, 3511, 3531, 3532, 3541, 3542, 4451, 4541, 4551 or 4552 (to complement Theatre History core course requirement); electives courses chosen in conference with the student's advisor to complete the total of 16 semester hours.

b. Production (Design /Theatre Technology Sequence):
THEA 2511 or 2512 (whichever one was not taken as Performance); THEA 1212, 3505, 3511, 3512, 3513, 3531, 3532, 4451, 4551, 4552 (to complement theatre history core requirements), 4562, 4564, 4565, 4567, 4569, 4591, 4592; 16 hours of elective courses chosen in conference with the student's advisor.

c. Dance:

THEA 2532, 3541, 3542, 4451; DANC 1821, 1822, 1823, 1825, 1826, 1827, 1831, 1832; PHED 3403; workshop courses chosen in conference with advisor; electives courses chosen in conference with advisor; THEA 4561 or DANC 4102, 4303, 4903; 10 elective hours to be determined in conference with advisor; Theatre movement chosen with advisor (6 hours); DANC 4003 (6 hours); Advanced Ballet, Variations, and/or Pointe; Acrobatics; Dance Techniques; Performance Lab.

NOTE: THEA 4561 (internship (see course description in section 6.) The intent of this degree requirement and course is to provide the student experience in a full-time theatre production situation. Off-campus participation (usually following the junior year) is an essential part of the B.F.A. degree program. Details are to be planned in advance in conference with the student's advisor.

BACHELOR OF MUSIC (IN COMMERCIAL MUSIC)

The Bachelor of Music with a major in Commercial Music is designed for students whose interests and abilities give strong evidence of potential for significant achievement in the areas of musical performance or composition/arranging in commercial music. The concentrations available are: I. Studio/Live Performance and II. Composition/Arranging.

Admission: An interview and an audition are required of all students entering this program in order to gain an appreciation of the inherent musical potential, qualifications, expectations, and prior experience of the student so that preliminary estimates of student commitment and potential success can be made. Stringent quality control is essential. Upon admission, the student will be assigned a faculty advisor.

Experiential Learning: Credit may be awarded for validated learning from experience or non-traditional instruction. Students who wish to apply for credit for experiential learning may obtain guidelines for this procedure from the Dean of the College of Communication and Fine Arts. (See Section 3, *Fees and Charges*, for related fee information.)

Remaining in the Program: The student's progress and continued potential will be reviewed at the conclusion of each semester by the faculty in Jazz and Commercial Music. Academic excellence and personal commitment to a career in the music industry as evidenced by involvement in projects of the student's own invention apart from classroom assignments will also be assessed.

Graduation from the Program: For the B.M. with a major in Commercial Music, the minimum of 142 semester hours are required for graduation. A minimum grade of C and an average GPA of 3.0 are required for courses in the major, with an overall GPA of not less than a 2.0.

1. GENERAL EDUCATION COURSES (37-39 semester hours)

English: ENGL 1101, 1102 with a minimum grade of C, and two of the following: ENGL 2101, 2102, 2103, 2104, 2105, 2106 (16).
 Foreign Languages: 6 semester hours in one foreign language (6). For details see advisor.

History: HST 2601, 2601 (6)
 Science: 6 semester hours in one science course (6 semester hours or more) in biology, chemistry, GEOG 1101, 1102, geology, or physics (6)

Mathematics: MATH 1213 or higher (3)
 Physical Education: for details see Section 6, Graduation from the University.

2. COMMERCIAL MUSIC CORE COURSES (15-17 semester hours)

ACCT 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018 (History of Rock and Pop Music or Afro-American Folk Music); MUAP 1000: MUSI 1105; CMUS 3100, 3101, 3823, CMUS 3800

*Composition Project required for Studio/Live Performance and Performance Project required for Composition/Arranging concentration.

3. MUSICSHIPIAN CORE COURSES (42 semester hours)

MUAP 1000, 1010, 1011, 1012, 1013, 1014, 1015, 1016, 1017, 1018, 1019, 1020, 1008, 2010, 3008, 3009, MUHL 4309, 4302 (History of Rock and Pop Music or Afro-American Folk Music); MUAP 1000: MUSI 1105; CMUS 3116, 2101, 2102, 3828.

4. CONCENTRATION AREAS

a. Studio/Live Performance (48 hours)

Individual lessons on a major instrument or voice of which a minimum of 4 hours must be in upper division courses (14).

Instruction on a secondary instrument or voice (piano majors must take MUTC 2511) (2)

MUAP 3010, 3011, 3012, 3013, 3014, 3015, 3016 (Ensemble) (8)

MUAP 3011 (4), 3103 (6), 3825 (3), 3826 (3), 3827 (3), 4103 (3). These courses have separate sections for voice and instrumental students.

4201 (Studio) and 4202 (Music) (2)

b. Composition/Arranging (47-48 hours)

Major instrument or voice (6)

MUSE 1101, 1104, 1109; MUAP 1311 (pianists MUSE 1111), 1410 (percussionists MUSE 1111); MUTC 2501, 2502, 2503, 2504, 2505, 2506, two semesters each of: MUAP 3010, 3011, 3013 (3), 3014, 3015, 3016 (Ensemble); MUAP 3010, 3012, 4102, 4501, 4502 (36).

Two of the following: CMUS 3801, 3825, 4103, 4603; MUTC 3108 (30).

BACHELOR OF MUSIC (In Music)

The Bachelor of Music is a professional degree, the requirements for which provide the student with a greater opportunity for specialization in music than available under the other baccalaureate programs. A minimum grade of "C" is required in every graded course applicable toward a major or minor. The student must maintain an overall quality point average of 2.0. The specific degree requirements are divided into five groups: (1) general education, (2) basic music courses, (3) courses required for one of the eleven concentrations as outlined, (4) music electives and (5) elective courses other than music and music education to bring the total to 132 semester hours. Transfer students must complete at Memphis State University at least 30 semester hours of upper division credit in the music degree program.

Admission: Applicants seeking admission as music majors must complete and submit to the Admissions Office of Memphis State University a formal application form. In addition to academic considerations, admission to the music degree program requires a personal interview (where applicable) and an audition of all candidates. The audition consists of (1) performance in the student's major applied area and (2) a music theory examination (written and aural). Candidates are accepted on the basis of accomplishment, future promise, and suitability for the program in which they wish to enroll. Candidates audition at designated locations on Saturdays,

November through April, or by appointment. Students seeking admittance as music majors in the fall semester are required to audition no later than **June 15**. Students seeking admittance as music majors in the spring semester are required to audition no later than **December 1**. Additional information regarding admittance as a music major may be obtained through the office of the Department of Music.

Detailed degree requirements are as follow: figures in parentheses indicate semester hours credit.

1. GENERAL EDUCATION COURSES (34-36 semester hours)

English: ENGL 1101, 1102 with a minimum grade of C; and two of the following: 2101, 2102, 2103, 2104, 2105, 2106 (12).

Foreign language: 6 semester hours in one foreign language; for details see advisor (6).

Science: 6 semester hours in one science course (6 semester hours or more) in biology, chemistry, GEOG 1101, 1102, geology, or physics (6).

Mathematics: 3 semester hours in one of the following: 1181, 1182, 1183, 1184, 1212, 1312, 1321, 2291, 2321, or 2611, or PHIL 1611.

Physical Education: for details see section 6, Graduation from the University.

2. BASIC MUSIC COURSES (36 semester hours)

MUTC 2006, 2010, 2009, 1001, 2011, 2008, 2010, 3008, 3009, 3010, 3101, 3105, 3203, History of Music (6)

Large Musical Organizations: A minimum of eight large ensembles is required of music majors. (Exceptions to this policy are placed with concentration in Performance, Pedagogy, or Chamber Music.) Students are required to have a minimum of 6 semesters of large ensemble: Commercial Music majors in Performance, who are required to have 8 semesters of the appropriate level jazz ensemble; Composition majors in Composition/Arranging, who are required to have 4 semesters of the appropriate level jazz ensemble.) Generally, wind and percussion performers are to participate in band; vocal performers are to participate in choir; piano performers are to participate in orchestra; and, vocal, keyboard, and guitar performers are to participate in a choral organization unless assigned to a large instrumental ensemble. Transfer students may not fulfill large ensemble credits by simultaneously enrolling in a small ensemble with a maximum of 2 credit hours of small ensemble applicable to the total degree. The requirement for ensemble assignments are based on audition and may be repeated. Any exception to this general ensemble assignment policy will be made after a review of petitions by the director of ensemble, appropriate area coordinator, and the appropriate teacher.

Piano Proficiency: All undergraduate music students must complete a piano placement examination prior to enrolling in applied music courses in the Department of Music. All music majors must pass the piano proficiency examination before the beginning of the senior year. This may be done in either of two ways: (1) as part of the class work in MUSE 2108, Class Piano, or (2) by passing what is known as the piano proficiency examination. The student's area of major study, given once each semester. An official notice will be mailed to the student and appropriate office upon completion of MUSE 2108 or the piano proficiency exam. Copies of the requirements for the piano proficiency examination are available on request in the Music Department Office. After successful completion of the piano proficiency examination, music students may take the piano proficiency examination during the first semester of residence or enroll in Class Piano at the appropriate level.

Applied Music Workshop: The course MUAP 1000 is required of all music majors for eight semesters and of all music education majors for seven semesters. Attendance at 14 recitals per semester is required.

3. MAJOR: Music

a. Concentration Areas (choose one):

1. Brass Instruments (46 hours)

Individual instruction in major instrument (32)

Individual instruction in two secondary brass instruments (14)

MUSE 1104, Class Instruction in Woodwind Instruments (2)

MUSE 3700, Basic Conducting (2)

Job shadowing (2)

Small Ensembles, 4 semester hours required to be chosen from those listed under "Small Ensembles and Chamber Music" in the description of music courses in section 8 (4)

b. Church Music

Choral Emphasis (40-41 hours):

Individual instruction in voice (16)
 MUSE 3700, Basic Conducting (2)
 MUAP 2011, Choral Conducting (2)
 MUAP 4619 or MUSE 4201, and 4799, Senior Recital in Choral Conducting and Special Problems in the Teaching of Music (1-2)
 MUSI 4202, Chamber Music (1)
 MUSA 4104, 4105, Sacred Music in History and Practice I and II (6)
 MUSA 4202, Materials and Methods K-6 (3)
 MUSA 4203, Chamber Methods and Materials (2)
 Small Ensembles (4)
 Music Electives (2)

Organ Emphasis (49 hours):
 Individual instruction in organ (16)
 Individual instruction in organ (4)
 MUSE 3700, Basic Conducting (2)
 MUAP 4339, Senior Recital (1)
 MUSE 4701, Choral Conducting (2)
 MUSA 4104, 4105, Sacred Music in History and Practice I and II (6)
 MUSA 4202, Materials and Methods K-6 (3)

MUSA 4203, Chamber Methods and Materials (2)
 Small Ensembles (2)
 Music Electives (2)

c. Composition (47 hours):
 Individual instruction in applied music to include four semester hours of piano (12)
 MUTC 2501, Composition (2)

MUTC 2502, Composition (4)
 MUTC 2503, Composition (4)
 (at least four semesters)

MUTC 4511, Intermediate Electronic Music (2)
 MUTC 4512, Advanced Electronic Music (2)

MUTC 4513, Counterpoint (6)
 MUTC 3103, Advanced Orchestration (3)

MUSE 3700, Basic Conducting (2)
 MUTE 3702, Score Reading (3) or
 MUTE 3703, Score Reading (3)
 MUTC 4519, Senior Composition Recital (1)

MUAP 3402, Contemporary Chamber Players (2)

d. Music History (46 hours):
 Individual instruction in applied music (8)
 MUTE 3105, 3106, 3107, Counterpoint (4)

Advanced Music History (12)
 Two additional courses in the social sciences (6)
 Foreign Language: 12 semester hours in addition to required courses in English and/or foreign language (12)

Collage Music (4)

e. Music Theory (49 hours):
 Individual instruction in applied music (12). At least 8 of these hours must be piano.

MUTE 4502, Composition for Non-composition majors (3)

MUTE 3105, 3106, 3108, Counterpoint (6)
 MUTE 3103, Advanced Orchestration (3)

MUSE 3700, Basic Conducting (2)
 MUTE 3702, Score Reading (3)
 MUTE 4203, Critical Studies in Music (3)
 MUTC 4101, Compositional Techniques of the Twentieth Century (3)

MUTE 4102, Compositional Techniques (3)
 MUTE 4701, Choral Conducting (2)
 MUTE 4104, Pedagogy of Theory (3)
 Upper Division Music History (6)

f. Organ (49 hours):
 Individual instruction in organ (32)

MUAP 4338, 4339 Junior and Senior Recitals (2)
 MUSE 3700, Basic Conducting (2)

MUSE 4701, Choral Conducting (2)
 MUTE 3105, 18th Century Counterpoint (2)

MUTE 3106, 18th Century Organ (2)
 MUHJ 4005, 4006, History and Literature of the Organ I and II (4)

Small Ensembles (2)

g. Percussion (46 hours):
 Individual instruction in percussion (32)

MUSE 1101, Class Instruction in Brass Instruments (2)

MUSE 1109, 1110, Class Instruction in String Instruments (2)

MUSE 1104, Class Instruction in Woodwind Instruments (2)

MUSE 3700, Basic Conducting (2)
 MUAP 4418, 4419 Junior and Senior Recitals (2)

Small Ensembles, 4 semester hours required, 2 to be chosen from those listed under "Small Ensembles and Chamber Music" in the description of music courses in section 8 (4)

h. Piano and/or Harpichord
Chamber Music Ensemble (55-66 hours):
 Individual instruction in piano (32)

MUSE 4501, Basic Piano Pedagogy (3)
 MUSE 4503 Advanced Piano Pedagogy (3)
 MUSE 4505 Principles of Accompanying (3)
 MUSE 4506 Chamber Music (3)
 MUAP 3301 Chamber Music (6)

MUAP 4002, 4003, OR MUHL 4004, Song Repertoire I, Some Repertoire II, or Survey of Chamber Music for Piano (2)

MUAP 4118 Junior Recital (1)

MUAP 4349 Senior Accompanying Recital (1)

Pedagogy Emphasis (54 hours):

Individual instruction in piano (32)

MUSE 4501, Basic Piano Pedagogy (3)

MUSE 4503 Advanced Piano Pedagogy (3)

MUSE 4505 Principles of Accompanying (3)

MUHL 4001 Piano Repertoire (3)
 MUAP 3301 Chamber Music for Pianists (6)
 MUAP 4318 Junior Recital (1)
 EDPS 2111 Human Growth and Development (3)
Performance Emphasis (36)
 Individual instruction in piano and/or harpsichord (36)
 MUSE 4503 Advanced Piano Pedagogy (3)
 MUSE 4505 Principles of Accompaniment (3)
 MUHL 4001 Piano Repertoire (3)
 MUAP 3301 Chamber Music for Pianists (6)
 MUAP 4318, 4319 Junior and Senior Recitals (2)

1. Strings (47 hours):

Individual lessons in major instrument (32)
 Individual instruction in two secondary string instruments (4)
 MUTC 3110 Advanced Orchestration (3)
 MUAP 4300 Basic Conducting (2)
 Junior and Senior Recital (2)
 Small Ensembles. 4 semesters required to be chosen from those listed under "Small Ensembles and Chamber Music" in the description of music courses in section 8 (4)

1. Voice / Opera

Voice Emphasis (53 hours):
 Individual instruction (36 hours) (24)
 MUAP 4303 Song Repertoire I and II (4)
 MUHL 4407 The Opera and Music Drama (3)
 MUSE 4701 Choral Conducting (2)
 Foreign Language (12) In addition to 6 hours general education requirements, 6 hours each in 2 other languages (must be in French, German, or Italian)
 Junior Recital (MUAP 4618) (1)
 Senior Recital (MUAP 4619) (1)
 NOTE: Junior recital may be satisfied by public performance in a major operatic role.
 Small Ensembles (6)
 MUAP 3602 Opera Workshop (2)
 MUAP 3604 Opera Production (2)
 Additional small ensembles of the student's choice (2)

Opera emphasis (54 hours):

Individual instruction in voice (16)
 MUAP 4303 Song Repertoire I and II (4)
 MUHL 4407 The Opera and Music Drama (3)
 Theatre (6 hours from the following)
 THEA 1551, 2501, 2515, 2531, 3511
 Foreign Language (12) In addition to 6 hours general education requirements, 6 hours each in 2 other languages (must be in French, German, or Italian)
 Junior Recital (MUAP 4618) (1)
 Senior Recital (MUAP 4619) (1)
 NOTE: Junior recital may be satisfied by public performance in a major operatic role.
 Small Ensembles (11)
 MUAP 3602 Opera Workshop (4)
 MUAP 3603 Opera Production (3)
 MUAP 3604 Opera Production (3)

k. Woodwinds (51 hours):

Individual instruction in major instrument (32)
 Individual instruction in three secondary instruments (9)

MUSE 1101, Class instruction in Brass Instruments (2)
 MUTC 3103, Advanced Orchestration (3)
 MUSE 3700, Basic Conducting (2)
 Junior and Senior Recital (2)
 Small Ensembles. 4 semesters required; to be chosen from those listed under "Small Ensembles and Chamber Music" in the description of music courses in section 8 (4)

4. MUSIC ELECTIVES: at least 6 semester hours in upper division music courses selected from a concentration area other than the one chosen for the major.

5. ELECTIVE COURSES to bring the total to a minimum of 132 semester hours. These courses will be chosen by the student in consultation with his advisor and major professor.

BACHELOR OF ARTS

To qualify for the degree of Bachelor of Arts the student must complete a minimum of 132 semester hours with a quality point average of 2.0. Of the 132 semester hours required for graduation, at least

42 semester hours must be in courses from the Upper Division. Not more than 42 semester hours in any one subject will count toward degree. (EXCEPTION: The student majoring in journalism may not count more than 35 hours in journalism and journalism skills courses toward the 132 hours required for graduation.)

English: ENGL 1101, 1102 with a minimum grade of C, and two of the following: 2101, 2102, 2103, 2104, 2105, 2106

Foreign language: 12 semester hours, or the equivalent, in one foreign language.
 History: HIS 2601, 2602

Natural science: 3 courses from at least 2 departments, if 2 are from the same department, then not constituting a series. Courses from which three must be selected are BIOL 1200, CHEM 1051, 1052, or CHEM 1111, 1112, or PSYC 1031, 1032, GEOL 1101, 1102, GEOG 1101, GEOL 1101, GEOH 1101, 1102 (not more than two courses may be taken in geology or psychology unless they meet the requirement); PHYS 1111, 1112 or 1811, 1812, or 2111, 2112, or 2511, 2512.

Social science: 15 semester hours with no more than 6 semester hours in a single department. Courses from which three must be selected are ANTH 1100, 1101, 1100, ANTH 1200 or 1400, CJUS 1100, ECON 1010, 2110, 2120, GEOL 1401, 2301, 2311, HIST 1301, 1302, INTL 1101, 1102, POLS 1101, 2211, 2301, 2501, PSYC 1101, 1102, SOCI 1101, 1102, 1103, 1104, 1105, 1106, 1321, 1401, 2002, 2291, 2321, 2322, 2401, 2402, 2561, PHIL 1111, 1811.

Fine Arts: Two of the following courses: ART 1101; MUHL 1101, THEA 1551.

Physical Education: for details see section 6. Graduation from the University.
 Major: Completion of requirements for one of the majors listed below.

Electives: to bring the total to 132 semester hours.

MAJORS (Choose one)

ART HISTORY

The Major. 36 semester hours in art history courses, including ART 2101, 2102, 4611, and one upper division course each from five of the following art history categories: Ancient, Medieval, Renaissance, Baroque, Modern European, American, and Non-European art. A minimum of 6 hours in studio art is also required.

ART

The Major: None available.

The Minor: 24 semester hours in art courses, 9 of which must be from the upper division.

PHOTOGRAPHY

The Major: None available.

The Minor: 18 semester hours as follows: ART 2701, 2702, 3701, 4701, 4702, and 4721.

JOURNALISM

Note: All journalism students must have typing proficiency and good written and oral communication skills. Students planning in journalism may select only one concentration and/or emphasis and may not simultaneously complete within the 132 hours required for the Bachelor of Arts degree, the concentration in film and videotape production and/or journalism. There are concentrations of 18 semester hours in a secondary area of emphasis, outside the Department of Journalism, approved by the student's advisor, is recommended.

The Major:

Journalism core (required of all students majoring in journalism) (12 hours): JOUR 1700, 2121, 4700, and one of the following: JOUR 3700, 4702, 4704, 4706, 4708, or 4726.

Completion of one of the following concentrations:

ADVERTISING (18 hours): JOUR 2300, 2710, 3322, 3324, 3335, 4327.

BROADCAST NEWS (17 hours): JOUR 3625, 3720, 4629; COMM 3823, 3824.

NEWS EDITORIAL (choose one emphasis):

Magazine (18 hours): JOUR 2123, 2200, 3205, 3214, 3527, 3720.

Newspaper (13-14 hours): JOUR 2123, 3125, 3720, 4120, and 3123 or 4726 or, for students meeting the specified criteria, 1301.

Photojournalism (16 hours): JOUR 2123, 2520, 3525, 3527, 3720, 4530 (1 hour).

PUBLIC RELATIONS (37-39 hours): JOUR 2123, 3720, 3400, 3421, 4423; COMM 1311; MGMT 3110; MSCI 3311, 3322; MNG 3140; JOUR 1051 or COMM 3823. Twelve semester hours may be taken in any of the areas, outside the Department of Journalism, approved by the student's advisor.

The Minor: Students may qualify for a minor in general journalism by completing 18 semester hours in journalism courses, including JOUR 1700, 2121, 3400, and 9 additional semester hours selected from the upper division.

Practical experience is available to all journalism students on the *The DeSoto*, University yearbook; or in one of the following activities: University Broadcast Station, Athletic Publicity Office, Alumni Publicity Office, Photo Service Department. Majors will be chosen for senior-year internships with Memphis newspapers, magazines, advertising-public relations agencies, and broadcasting stations.

APPLIED MUSIC

The Major: None

The Minor: 24-28 hours in basic music courses plus the completion of the requirements for a minor; specific courses are outlined below.

Basic music courses (22 hours)

MUHL 1801, 1010, 1009, 1011, 2008, 2010 (12 hours)
 MUAP 1801, 1802

Individual instruction in piano, organ, voice, or orchestral instrument, 4 semester hours

Applied Music Workshop (See section 8, Description of Courses, for details.)

Applied Music (4 hours)

4 semester hours of individual instruction in upper-division courses.

THEATRE AND COMMUNICATION ARTS

Select one of the following concentration areas:

BROADCASTING (36-37 semester hours, including THEA 1551, COMM 1780, 1781, 2321, 2322, 2323, 2324, 3341, 3823 or 3821, 4810, 4857, or 4871, 12 additional COMM hours which must include two of the following courses: COMM 4811, 4831, 4854, or 4871)

COMMUNICATION (36 semester hours, including THEA 1551, COMM 1780, 1781, 2321, 2322, 2323, 2324, 3341, 3823 or 3821, 4810, 4857, or 4871, 12 additional COMM hours which must include two of the following courses: COMM 4811, 4831, 4854, or 4871)

FILM AND THEATRE PRODUCTION (38 semester hours, including THEA 1551, COMM 1780, 1781 or 1782, 2321, 3322, 3323, 3324, 3325, 3326, 3327, 3328, 3329, 3330, 3331, 3332, 3333, 3334, 3335, 3336, 3337, and 3338, and 12 additional hours to be selected from COMM). At least 18 hours of concentration must be upper-division hours.

FILM AND THEATRE PRODUCTION (38 semester hours, including THEA 1551, COMM 1780, 1781 or 1782, 2321, 3322, 3323, 3324, 3325, 3326, 3327, 3328, 3329, 3330, 3331, 3332, 3333, 3334, 3335, 3336, 3337, and 3338, and 12 additional COMM hours which must include two of the following courses: COMM 4811, 4831, 4854, or 4871)

GENERAL THEATRE (1411, 1412, and 1413) (36 semester hours, including THEA 1411, 1412, and 1413, COMM 1780, 1781, 1782, 2321 or 2322 or 3341, 2781 or 3321, 3322, 3351, 3800, and twelve additional hours in Theatre and Communication Arts). At least 18 hours of concentration must be upper-division hours.

THEATRE (36 hours in theatre courses: THEA 1411, 1551, 1561, COMM 1781, THEA 2501, 2511 or 2512, 2531, 3412, 3541 (2 hours), 3542 (4 hours), 4551 or 4552, and 4582)

General Electives (27 hours Upper Division ONLY): no more than six of the 37 required upper division electives may be selected from the Theatre area, to be chosen in conference with the student's advisor.

The Minor: Any student wishing to minor in any area (Communication Arts, Theatre, Dance, and Communication Arts) in the Department of Theatre and Communication Arts should consult the advisor in the department. The minor will be approved by the advisor and will be on an appropriate advisor. The minor must consist of at least 18 hours of approved coursework (for the Dance minor, 6 of these hours must be the upper division), as determined by the student in conference with his advisor and with the approval of the department chairman.

The College of Education

ROBERT L. SAUNDERS, B.S., M.S., Ed.D., *Dean*
Room 215, The College of Education Building

ACADEMIC PROGRAMS

Department	Major (Concentration)	**ENDORSEMENTS		Degree Offered
		Major Endorsement	Minor Endorsement	
		**ENDORSEMENTS		
Curriculum and Instruction	Elementary Education	Elementary Education	Kindergarten	Bachelor of Science in Education (B.S.Ed.)
	Early Childhood Education (K-3)			
	Secondary Education	Art Education Business Education Distributive Education English Foreign Languages French German Latin Russian Spanish Health Education Elementary Physical Education Secondary Physical Education Industrial Arts Education Mathematics Math & Phys. Science Music Education Instrumental Music School of Music Science Biology Chemistry Earth & Space Sciences General Science Physics Social Studies Economics Geography Government History Sociology Special Education Speech and Drama Vocational Home Economics	Business Education Secretarial Practice Bookkeeping General Business Typewriting Economics Consumer Education General Business Business Distributive Education Driver Education English Foreign Languages French German Latin Russian Spanish Health Education Elementary Physical Education Secondary Physical Education Industrial Arts Education Librarian Mathematics Psychology Science Biology Chemistry Earth & Space Sciences General Science Physics Social Studies Economics Geography Government History Sociology Special Education Speech and Drama	
Health, Physical Education and Recreation	Health Education Physical Education (Elementary) (Secondary)	Health Education Elementary Physical Education Secondary Physical Education	Health Education Elementary Physical Education Secondary Physical Education	Bachelor of Science in Education (B.S.Ed.)
	*Recreation and Park Administration			
Home Economics and Distributive Education	*Home Economics (Dietetics) (Food Administration) (Merchandising-Fashion) (Merchandising-Home Furnishings)			Bachelor of Science in Home Economics (B.S.H.E.)
	Vocational Home Economics (Occupational Child Care Services) (Occupational Clothing Services) (Occupational Food Services)	Vocational Home Economics		Bachelor of Science in Education (B.S.Ed.)
	Distributive Education	Distributive Education	Distributive Education	Bachelor of Science in Education (B.S.Ed.)
Music (College of Communication and Fine Arts)	Music Education (Instrumental Music) (School Music)	Music Education Instrumental Music School Music		Bachelor of Music Education (B.M.Ed.)
Special Education and Rehabilitation	Special Education Rehabilitation Education (Rehabilitation of the Public Offender) (Vocational Evaluation) (Rehabilitation Education)	Special Education	Special Education	Bachelor of Science in Education (B.S.Ed.)

*Not approved as a valid certification area in Tennessee

**The endorsements are listed only with the departments in which they are offered, but they may accompany any major.

PURPOSES

In helping Memphis State University achieve its three broad objectives of teaching, public service, and research, the College of Education has the following specific objectives: (1) to work with schools and other appropriate organizations in recruiting desirable and promising candidates into education careers; (2) to provide preparation programs which produce teachers and related educational personnel sufficient in quantity and competence to help meet the needs of the state, region, and nation; (3) to provide programs and services for other educational personnel already in service which enable them to acquire additional preparation needed for changing career objectives and continuous professional growth; (4) to provide effective personnel services in such areas as certification, placement, and follow-up to undergraduates, graduates, and educators in service; (5) to provide a comprehensive program of research and service to schools and other appropriate agencies in the state and region; and (6) to provide appropriate programs and services needed by Memphis State University in its efforts to continuously improve the effectiveness of teaching and learning at the University.

ORGANIZATION OF THE COLLEGE

The College of Education is composed of the following departments: Curriculum and Instruction; Counseling and Personnel Services; Educational Administration and Supervision; Foundations of Education; Health, Physical Education and Recreation, Home Economics and Distributive Education, and Special Education and Rehabilitation. Other units in the college are described in the following paragraphs.

Bureau of Educational Research and Services

The Bureau of Educational Research and Services is a catalytic agency for the promotion of research and development in The College of Education. As such, it is the coordinating agency of the college for several types of activities that involve faculty members: research, evaluation, program development, and field services. Throughout its years of operation it has provided for the initiation of programs (that are now departmentalized) and for program coordination involving two or more departments.

Through the bureau, the faculty of the college serves the community, state, region, and nation by participating in joint ventures with local school systems, institutions of higher education in Tennessee, the State of Tennessee, the U.S. Office of

Education, the armed forces, and other organizations of local, regional, and national agencies.

Research projects involving faculty members relate to delivery systems, testing and test development, faculty improvement, surveys, and assessment efforts. Evaluation activities center on learning disabilities, pre-vocational education, science, social science, Title I projects, and school systems. Field services, including institutes and workshops, in-service training in proposal writing and submission procedures, and consultation for specific needs, such as instructional improvement, organizational change, publications, and curriculum planning are available through the bureau. The primary objective of the bureau is service, and research plays a fundamental role in the extension of this objective.

Center for Study of Higher Education

Established in 1971, the Center for the Study of Higher Education is a research and service unit of The College of Education. Its areas of concern include basic skills and developmental study, integrating career education and liberal learning, education for diverse adults, individualized education and experiential learning, core curricula, interdisciplinary and area studies, higher education for the handicapped and cost-effectiveness research. The center provides consultation, a resource center for pertinent literature, conferences and workshops for colleges and universities of the mid-South region and nation. Center faculty members hold joint appointments in the center and in the departments which offer graduate studies in higher education. Through this combination of service, research and teaching, the center staff brings focus on higher education for the graduate students in the departments who are studying in that area.

The MSU-Duration Children's Program

The MSU-Duration Children's Program (MSU-DCP) is for preschool children ages infancy through five years. The student body is heterogeneous and includes a program to mainstream handicapped children into the normal education process. MSU-DCP utilizes the resources of various departments and units both within and outside the College of Education, as well as the services of the members of the Duration Club. It is committed to the continuous development of innovative and effective program models for serving the needs of preschool children. The program is administered by the College of Education, and has an advisory board of governors which includes representatives of the community, the Duration Club and various academic departments. MSU-DCP is a non-profit institution. Tuition charges are determined by the cost of operation, admission is open, and acceptance is determined by date of application.

Applications are obtained from the Director of the MSU-DCP.

Division of Professional Laboratory Experiences

This division is a coordination unit for all professional laboratory experiences ranging from observation to full-time internships, undergraduate and graduate. The division coordinator serves as a liaison between the college and those organizations and agencies used by the college to provide laboratory experience for students and faculty.

University Campus School

The University Campus School, adjacent to The College of Education building, is a public school comprising grades 1 through 6, operated by the University as a part of the public school system of the City of Memphis. It offers a broad program of training for approximately 500 students. This school also serves the teacher education program as a laboratory where varied opportunities are offered University students to study children, to study the school program, and to participate in teaching activities.

ADMISSION

Requirements for admission to The College of Education are those set up for the University as a whole; see section 2, *Admission to the University*.

Admission to the Teacher Education Program

Students who wish to prepare themselves for careers as teachers must make formal application for admission to the Teacher Education Program. Applications cannot be considered until the student has completed a minimum of one and one-half years of college work to the satisfaction of the faculty of The College of Education. Applications should be filed no later than the second semester of the sophomore year. If a student does not file an application during the second semester of his sophomore year, he MUST file one before the end of the first semester of the junior year and prior to enrolling in EDPS 3121. Students who transfer to MSU with 40 semester hours or more must file an application during their first semester of residence and prior to enrolling in EDPS 3121.

The following factors will be considered by the screening committee in determining a student's eligibility for admission to the teacher education program:

1. Academic aptitude — acceptable scores on tests used for admission to MSU.
2. Academic achievement — quality point average of 2.25 in professional education, 2.25 in the teaching endorsement(s), and 2.25 overall. In addition, the student will be required to pass specified basic skills tests in areas as prescribed by the Tennessee State Board of Education and by The College of Education, Memphis State University. Information on these

tests and the required scores is available from the Assistant Dean for Student Personnel Services.)

- Proficiency in English — quality point average of 2.00 in all English courses completed or at least a grade of "C" in English 1101 and 1102.
- Speech and hearing — acceptable scores on tests administered by Memphis State University Speech and Hearing Center.

- Health
- Social adjustment (Any student may be recommended by the College of Education for a psychological assessment and by the MTSU Psychological Services Center and any student in the Teacher Education Program may volunteer to participate in the psychological assessment procedure. The student will have the option of seeking an assessment from a professional who is not affiliated with the University.)
- Communication skills
- Interest in teaching
- Desire to work effectively with students
- Completion of 36 semester hours of the 45 semester hours in the general education program.
- Completion of at least 9 semester hours in the major teaching endorsement.
- Completion of EDFD 2011 and/or EDPS 2111 (or equivalent(s)).
- Evidence of satisfactory performance in an early related field experience.
- Specific recommendations from faculty members — professor under whom applicant completed EDFD 2011 or EDPS 2111 and professor under whom applicant has completed a course in the major endorsement area.
- Transfer student who transfers 40 or more semester hours to have recommendation from former college or university advisor, instructor, department chairman, or other official.

*Information on factors 5-9 should be submitted by the student, by staff members, and by personnel in appropriate offices and centers.

Once admitted to the teacher education program, the student must maintain the standards required for admission. If the student falls below any of these standards, his name may be removed from the file of students admitted to the Teacher Education Program. He may be readmitted to the Teacher Education Program when all of the standards are met.

In order to be graduated and certified to teach, a student must (1) meet all standards established for admission to the teacher education program, (2) make formal application for and be admitted to that program, (3) complete all requirements for certification, and (4) complete all degree requirements in the college of the University in which he is enrolled.

All graduates of The College of Education must be qualified for a teaching certificate with the exception of those in the following programs which are not designed for a career in teaching: Home Economics in the Department of Home Economics; Recreation and Park Administration in the Department of Health, Physical Education, and Recreation; and Rehabilitation Education in the Department of Special Education and Rehabilitation.

Students must be admitted to the Teacher Education Program prior to enrolling for student teaching. Students who enroll for student teaching for the fall semester should have been admitted by the end of the immediately preceding spring semester. Students who enroll for the spring semester should be admitted by the end of the immediately preceding summer session. [EXCEPTIONS: (1) Stu-

dent with low grade(s) — A student who has filed an application for admission to the teacher education program but has not been admitted by the end of the immediately preceding spring semester or summer session because of low grades, will be allowed two weeks following the end of the semester or session to submit evidence that grades then meet the requirements of admission. (2) Transfer student — A student who transfers from another college or university may, if enrolled for a minimum of twelve hours, apply for admission to the teacher education program during his first semester here. If he is admitted to the teacher education program that semester and if he meets all other requirements, he may be admitted to student teaching the following semester.]

Application forms for admission to the teacher education program should be obtained from Room 215, Ball Education Building. For a detailed explanation of all requirements the student should consult with the College of Education General Advisor.

DIRECTED STUDENT TEACHING

Directed student teaching, offered during the fall and spring semesters in cooperating schools, provides opportunities for observation of good teaching practices and for practical teaching experiences under the direction of supervising teachers.

A limited program of student teaching for in-service teachers is offered through the summer session. [In-service teachers are people who meet one of the following criteria: a) completed a successful significant teaching experience in an elementary or secondary school with state and/or regional accreditation; or b) possess a valid professional certificate and are adding an additional certification for which student teaching is required.] Information concerning the summer program, including requirements for enrolling, may be obtained from the director of student teaching. Application should be filed by April 1 immediately preceding the summer session during which student teaching is desired.

Normally, student teaching assignments are full day in length for a designated number of weeks. Unique situations requiring a different arrangement must be approved by the Director of Professional Laboratory Experiences.

Students with a major in Early Childhood Education (K-3) are required to enroll for a fifteen hour professional semester during the senior year. This professional semester includes student teaching, divided between primary grades and Kindergarten, and a one-week academic marathon.

NOTE: STUDENTS WHO ENROLL FOR STUDENT TEACHING MAY NOT REGISTER FOR ANY COURSE WHICH IS SCHEDULED TO MEET AT A TIME WHICH WOULD CONFLICT WITH THE STUDENT TEACHING ASSIGNMENT.

All teacher education students must observe a professional semester when they are enrolled in student teaching. During this semester, only professional courses will be taken. The professional semester for student teachers may include the following courses:

Elementary Education: Methods: ELED 4243; Student teaching: ELED 4821

Kindergarten: Student Teaching: ELED 4811. Student teaching in elementary and kindergarten may be taken during the same semester.

Early Childhood Education (K-3): Student teaching ELED 4821 and ELED 4811. NOTE: Both must be taken during the senior year.

Secondary Education: SCED 4441 and appropriate elective in professional education, if not already completed; Student teaching: ELED 4841.

Distributive Education: DTED 4630, 4641; Student teaching: DTED 4871.

Special Education: Student Teaching: SPER 4541. NOTE: Student Teaching in Special Education and in Elementary or Secondary Education may be done during the same semester.

Grades in student teaching are reported as "S" (satisfactory) or "U" (unsatisfactory).

Requirements for enrolling for student teaching are as follows:

- Filing of application with the director of student teaching during the semester prior to the one in which the student teaching is to be done. Application for student teaching to be done in the fall semester must be filed by March 1; for the spring semester by October 1.
- Admittance to and good standing with the Teacher Education Program. (See Admission to Teacher Education Program, at the beginning of this section.)
- Classification as a senior or graduate student.
- Completion of at least one semester of residence at Memphis State University (minimum of twelve semester hours).
- An over-all average of at least 2.25; an average in the endorsement area(s) of at least 2.25; an average of 2.25 in all professional education courses.
- Completion of EDFD 2011, EDPS 2111, 3121, and SPER 2000.
- Completion of ELED 3241, 3261, 3261, 3271, 4242, and CED 3301, 4344 for those preparing to teach in elementary schools; ELED 2211 and 4212 for kindergarten; or the appropriate secondary methods course(s) for those preparing to teach in secondary schools.
- Completion of either the elementary or secondary laboratory experience. Exceptions must be approved by the Director of Professional Laboratory Experiences after consultation with the major advisor and department chairperson.
- Approval by the applicant's advisor and by the director of student teaching.

RESIDENCE REQUIREMENTS

Residence requirements in The College of Education are the same as those of the University as explained in detail in section 6, *Graduation from the University*.

DEGREE REQUIREMENTS

Accreditation

The College of Education holds membership in the American Association of Colleges for Teacher Education. Its undergraduate programs through the doctor's degree for the preparation of teachers and related school personnel are fully accredited by the National Council

cil for Accreditation of Teacher Education (NCATE).

College Honors Program

The College of Education Honors Program is intended to provide opportunities for students of junior standing who seek to demonstrate excellence in academic achievement. It offers a series of specifically designed honors sections and courses from which 18 hours must be taken and a 3.25 quality point average maintained. Specific information about the College Honors Program may be obtained in the office of the dean.

Degrees Offered

The College of Education offers the Bachelor of Science in Education, Bachelor of Science in Home Economics, and the Bachelor of Music Education degrees.

To qualify for a degree from The College of Education, the student must complete 132 semester hours of which at least 45 must be upper division hours and a minimum of 60 hours must be of liberal content. The quality point average requirements for those degree programs leading to teacher certification include the following: a cumulative average of at least 2.25; a minimum average of 2.25 for all credit earned at Memphis State University, excluding all credit transferred from other institutions; and a minimum average of 2.25 in all courses attempted in each major or minor endorsement area, and an average of at least 2.25 in all professional education courses, required or elective. The degree requirements for those majors which do not lead to teacher certification include the following required quality point averages: a cumulative average of at least 2.0; a minimum average of 2.25 in all courses attempted in the major field; and an average of at least 2.25 in all professional education courses, required or elective.

Courses in the following fields will meet the liberal content requirement: anthropology, art (non-applied), biology, chemistry, economics, English, geography, geology, history, journalism (non-applied), languages, mathematics, music (non-applied), philosophy, physics, political science, psychology, sociology, and speech. The following courses offered in The College of Education will meet this requirement: EDPS 2111 and EDFD 4012; HLTH 1102 and 1202; HMEC 1101, 1104, 2101, and 2202.

Course requirements for all degrees include the successful completion of the general education program, physical education activity courses, and a major in The College of Education. Programs leading to teacher certification include two additional components, the professional education program and endorsement in one or more teaching areas. Majors in Home Economics (Dietetics, Merchandising, and Food Administration), Recreation and Park Administration, and Rehabilitation Education complete only those professional education courses specified

in their programs and do not complete an endorsement since these majors are not intended to satisfy teacher certification requirements. These requirements are outlined in detail in the sections which follow.

I. THE GENERAL EDUCATION PROGRAM (45 semester hours)

(Courses taken to meet the requirements of this section may, if applicable, be used to meet the requirements of Section V below)

English (12 hours): ENGL 1101, 1102 and any two of the following: 2101, 2102, 203, 2104, 2105, 2106.

Mathematics (12 hours): HLTH 1102, and one of the following: HMEC 1101, PSYC 1101.

Humanities: Elective from one of the following: art (non-applied), foreign languages (2000 level or above), music (non-applied), and philosophy.

Speech: COMM 1211, 1311, 1780, 2911 or THEA 1411; COMM 1211 is recommended for elementary or early childhood certification.

Natural Sciences: 9 semester hours (including one two-semester laboratory sequence) in two of the following sciences: biology, chemistry, physics, earth sciences (defining the earth sciences of this requirement to include GEOG 1101, 1102, 4111, 4121, 4122, 4131, and any course in geology).

Note: Laboratory sequences possible in earth sciences are GEOG 1101, 1102, or GEOL 1101 and 1201, or GEOG 1101 and 1201.

Social Sciences: HIST 2601, 2602 (6 hours), and an elective from one of the following: anthropology, economics, geography (other than the earth science courses listed above), political science, and sociology.

Mathematics: (3) semester hours: MATH 1181 for elementary, early childhood or special education certification; MATH 1181 or any higher-numbered mathematics course for secondary certification.

II. THE PROFESSIONAL EDUCATION PROGRAM (30-45 hours)

A. Core courses: EDFD 2011, EDPS 2111, 3121; SPER 2000.

B. Courses in one or more of the following groups according to the area(s) of certification desired:

- FOR THE ELEMENTARY CERTIFICATE: ELED 3241, 3251, 3261, 3271, 4242, 4243, 4821 (9 hours), CIED 3301, 4344, for a total of 45 hours; OR Field-Based Program (FBD) for elementary education, to be completed in three sequential semester blocks as follows: Block I — ELED 3241, 4242, 4243; Block II — ELED 3251, 3261, 3271; CIED 3301; Block III — ELED 4821 (9 hours), CIED 4344, a total of 45 hours.
- FOR THE EARLY CHILDHOOD (K-3) CERTIFICATE: ELED 3412, 4212, 4242, 4821 (6 hours) and 4811 (9 hours) for a total of 36 semester hours.
- FOR ENDORSEMENT IN DISTRIBUTIVE EDUCATION: MAJOR-DTED 3010, 4630, 4641, 4871 (9 hours) and one education elective applicable for secondary teachers, for a total of 33 semester hours. MINOR-DTED 4630, 4641, 4871 (6 hours)

- FOR THE SECONDARY CERTIFICATE: SCED 4441, 4841, 4842 (9 hours), appropriate standardized educational courses, and one elective applicable for secondary school teachers, for a total of 30 semester hours. Selected MUSE courses may be used to satisfy the secondary education elective for students completing the secondary education certificate. For a listing of approved courses consult the College of Education General Advisor.

- FOR SPECIAL EDUCATION CERTIFICATE, SPER 3012, 4012, 4541 (9 hours), and ELED 3241, 4242, for a total of 33 semester hours.

A student may elect to obtain an endorsement in either elementary or secondary education which would require one professional education and content courses for that area(s). A student obtaining an endorsement in special education and elementary or secondary education is required to complete six (6) semester hours in either elementary special education (SPER 4541) and six (6) semester hours in either elementary (ELED 4821) or secondary education (SCED 4841). The special education student complete requirements for a secondary certificate may use the method course SPER 3012 to satisfy the secondary elective.

NOTE: Students will be required to take appropriate specialized methods course in each endorsement area, major or minor. In several endorsement areas additional professional courses are required. The following list identifies the methods course and additional professional education courses required for each subject area.

Art: SCED 3321 (same as ART 4421)

Business: For major endorsement, SCED 3378 and 3379 (for alternative 1); SCED 3376 and 3377 (for alternative 2) For minor endorsement, SCED 3376 and 3377 (for option 1); two courses from SCED 3377, 3378 and 3379 (for option 2); SCED 3379 and one course from 3376, 3377, 3378 (for option 3).

For specific endorsements, any one of the following: SCED 3371, 3377, 3378, 3379, the applicable courses depending on endorsements selected.

Driver Education: No methods course is offered.

English: SCED 3341. For major endorsement, SCED 4341 and CIED 4344 (additional requirements, one of which can be used to satisfy the secondary education elective.)

Foreign Language: SCED 3348

Health Instruction: HLTH 3102

Home Economics: (Vocational Home Economics) SCED 3383

Industrial Arts: SCED 3384 (same as VTED 4210).

Liberal Arts: No methods course is offered.

Mathematics: SCED 3331. An additional methods course, ELED 3251 is required for minor endorsement and highly recommended for minor endorsement.

Mathematics and Physical Science: SCED 3351 and/or 3362.

Music: SCED 3322 (same as MUSE 4203)

Physical Education: PHED 3803

Psychology: SCED 3372

Science: SCED 3361 (biology), 3362 (chemistry, physics, general science, and earth and space science)

Social Studies: SCED 3371

Speech and Drama: SCED 3346

III. PHYSICAL EDUCATION ACTIVITY COURSES

COURSES

Two semesters of physical education activity courses; for exceptions and details see section 6, *Graduation from the University*, and the course descriptions for the Department of Health, Physical Education and Recreation and the Department of Theatre and Communication Arts in section 8, *Description of Courses*.

IV. A MAJOR IN THE COLLEGE OF EDUCATION

EDUCATION

The student will choose one of the following majors offered in The College of Education. The specific courses required for the satisfaction of these majors are listed in the following pages.

Distributive Education

Early Childhood Education

Elementary Education

Health Education

Home Economics

Music Education

Physical Education

Recreation and Park Administration

Rehabilitation Education

Secondary Education

Special Education

Vocational Home Economics

V. SPECIFIC SUBJECT ENDORSEMENT

Students must complete requirements in at least one major endorsement area. The student may elect to complete requirements for more than one major endorsement or for a major endorsement and one or more minor endorsements. The minimum number of hours required for a major or minor endorsement varies according to the characteristics and needs of different subject areas.

Students will be required to take an appropriate specialized methods course in each endorsement area, major or minor. In several endorsement areas additional professional courses may be required as specified to

SPAN 3300 (3 hours) plus three upper division courses selected from the following: SPAN 3300 (3 hours), 3410, 3510, 4302, one linguistics course (3 hours) in consultation with advisor)

5. INDUSTRIAL ARTS (Secondary) Grades 7-12 (15 hours) Students seeking endorsement in Industrial Arts should take the following courses, which may be used to fulfill General Education requirements:

MATH 1213, CHEM 1051, PHYS 1111 and 1112.

Minor Endorsement (46 hours)

TECH 1511, 1611, 1711, 1811, 1821, 2555, 3350, 3601, 3718, 4355, VTEC 1011. Six semester hours from the following: TECH 1512 or 2221 or JOUR 2520. Six semester hours electives in technology.

Minor Endorsement (40 hours)

TECH 1511, 1611, 1711, 1811, 1821, 2555, 3350, 3601, 3718, 4355, VTEC 1011. Six semester hours from the following: TECH 1512 or 2221 or JOUR 2520.

Completion of the specified courses required for the major and the minor endorsements leads toward certification in industrial arts. Additional certification in the following single subjects may be earned by completing the following courses in addition to required courses. Drafting (TECH 2511 or 2521 is recommended) Electricity/Electronics (TECH 2821 or 3841 is recommended) Metalworking (TECH 3718 is recommended) Plastics (TECH 3410 is recommended) Wood (TECH 2611, 2651, or 3611 or 3631 is recommended)

6. MATHEMATICS

Major Endorsement (32 hours)

MATH 1213, 1321, 2321.

One course in each of the following areas:

Geometry (MATH 2581 is recommended)

Probability (MATH 4631 is recommended)

Computer Programming (COMP 4001 is recommended)

Theory of Numbers (MATH 4221 is recommended)

History of Mathematics (MATH 4151 is recommended)

Six hours from the following: MATH 2322, 2611, 3241, 4261, 4111, 4171, 4241, 4350, 4411, 4611

Minor Endorsement (32 hours)

MATH 1213, 1321, 2321, and nine hours from the following: MATH 2322, 2581, 2611, 3241, 4151, 4171, 4221, 4241, 4261, 4350, 4411, 4611, 4631; COMP 4001.

If a student's performance on the Mathematics Department placement test makes it possible for him to receive credit for MATH 1213, then he is advised to pay the required fee (\$15.00) and get the credit for the course. NOV 10, 2011. If a student has credit for MATH 1213, Mathematics may use MATH 1401, 1402, 2401, and 2402 to satisfy the following requirements: MATH 1213, 1321, 2321, 2611, and 3241.

7. MATHEMATICS AND PHYSICAL SCIENCE

Major Endorsement (61 hours)

Requires completion of minor endorsements in mathematics, chemistry, and physics and two methods courses (one each in mathematics and in physics) and one course in each of the following areas:

Mathematics: (20 hours)

MATH 1213, 1321, 2321, and nine hours from the following: MATH 2322, 2581, 2611, 3241, 4151, 4171, 4221, 4241, 4261, 4350, 4411, 4611, 4631; COMP 4001.

Chemistry: (20 hours)

PHYS 1811, 1812 (or an approved physics elective), 2111, 2122 (Prerequisite: MATH 1212), 3010, and one 3 hour elective in physics chosen in consultation with major advisor.

Mathematics: (20 hours)

PHYS 1811, 1812 (or an approved physics elective), 2111, 2122 (Prerequisite: MATH 1212), 3010, and one 3 hour elective in physics chosen in consultation with major advisor.

Minor Endorsement (20 hours)

PHYS 1811, 1812 (or an approved physics elective), 2111, 2122 (Prerequisite: MATH 1212), 3010, and one 3 hour elective in physics chosen in consultation with major advisor.

Mathematics: (20 hours)

PHYS 1811, 1812 (or an approved physics elective), 2111, 2122 (Prerequisite: MATH 1212), 3010, and one 3 hour elective in physics chosen in consultation with major advisor.

PHYSICAL EDUCATION (Secondary) Grades 7-12

Major Endorsement (57-58 hours): Same as the requirements for the major concentration.

Minor Endorsement (45-46 hours): Same as the requirements for the minor concentration.

9. PSYCHOLOGY

Major Endorsement — Not available

Minor Endorsement — (21 hours)

A. PSYC 1101; PSYC 2302 or SOC1332; PSYC 3106 or SOC13701.

B. Three to six hours chosen from the following areas: Developmental Psychology (PSYC 3103); Abnormal Psychology (PSYC 3102); Personality Dynamics (PSYC 3101); Child Psychology; Adolescent Psychology (EDPS 4112 or SOC1 4760).

C. Three to six hours of electives: The electives may be selected from any undergraduate courses taught by the Psychology Department or courses in the Department of Educational Foundations (EDPS) or SOC1 4760. The student may not count both PSYC 3103 and SOC1 3701. EDPS 4112 or SOC1 4760 are meeting endorsement requirements. Courses taken in Educational Psychology (EDPS) may not be counted toward fulfilling both professional education and endorsement requirements.

10. SCIENCE

a. Biology

Major Endorsement (35 hours)

BIOL 1200, 1600, 2000, 3050, 3070, 3100, 3500; CHEM 1111, 1112 (Corequisite: MATH 1211, 1212, or 1321).

Minor Endorsement (23 hours)

BIOL 1200, 1600, 2000, 3070; CHEM 1111, 1112 (Corequisite: MATH 1211, 1212, or 1321).

b. Chemistry

Major Endorsement (32 hours)

CHEM 1111, 1112, 3301, 3302, 3311, 3312, 3201, 3211, 3401, 3407; PHYS 2111, 2112 (Prerequisite: MATH 1212).

Minor Endorsement (20 hours)

CHEM 1111, 1112, 3301, 3302, 3311, 3312, 3201, 3211.

c. Physics

Major Endorsement (32 hours)

PHYS 1811, 1812, 2111, 2112. (Prerequisite: MATH 1212), 3010, 3211, 3510; CHEM 1111, 1112

Minor Endorsement (25 hours)

PHYS 1811, 1812 (or an approved physics elective), 2111, 2122 (Prerequisite: MATH 1212), 3010 CHEM 1111, 1112

d. General Science

Major Endorsement (37 hours)

BIOL 1200, 1600, 2000, 3050, CHEM 1111, 1112 (Corequisite: MATH 1211, 1212 or 1321); PHYS 1811, 2111, 2122 (Prerequisite: MATH 1212); Earth Science elective (3 hours)

Minor Endorsement (23 hours)

BIO 1101, 1102, 2111, 2121; PHYS 2111 (Corequisite: MATH 1211, 1212 or 1321); PHYS 2111 (Prerequisite: MATH 1211, 1212); Earth Science elective (3 hours)

e. Earth and Space Sciences

Major Endorsement (34 hours)

GEOL 1101, 1102, 2321, 3100; PHYS 1811; GEOG 1101, 1102, 2111, 2121, 3101

Minor Endorsement (24 hours)

GEOL 1101, 2321, 3100; PHYS 1811; GEOG 1101, 4111, 4121

11. SOCIAL STUDIES

a. Economics, Geography, Government, and Sociology

Major Endorsement (30 hours) 24 hours of work in the designated major area, selected in consultation with advisor, of which at least 18 hours must be upper division hours.

Up to 6 hours may be taken in cognate social science areas supportive to the major (excluding HIS 2601, 2602), and selected in consultation with major advisor.

NOTE: These four areas may be selected as major endorsement areas only if taken in combination with a major or minor endorsement in history or with a minor endorsement in some other teaching area of endorsement.

Minor Endorsement (18 hours) 12 upper division hours in the designated major area, selected in consultation with advisor. Up to 6 hours may be taken in cognate social science areas supportive to the minor (excluding HIS 2601, 2602), and selected in consultation with advisor.

Up to 6 hours may be taken in historical courses which do not have to be offered by the History Department or the Department of Education.

Up to 6 hours may be taken in cognate social science areas supportive to the major (economics, sociology, political science, geography, anthropology, etc.)

Minor Endorsement (24 hours)

HIST 2601, 2602

European and/or world history courses (6 hours) Upper division history courses, selected in consultation with advisor (12 hours)

Electives, selected in consultation with advisor (12 hours) Electives, additional history courses, or in the following areas:

Up to 6 hours may be taken in historical courses which do not have to be offered by the History Department or the Department of Education.

Up to 6 hours may be taken in cognate social science areas supportive to the major (economics, sociology, political science, geography, anthropology, etc.)

Major Endorsement (36 hours)

COMM 1780, 1781, 2321, 2781 or 3322, 3341 or 4341, 4922; THEA 1411, 1561, 2530, 3521, 3542 (3 hours), 4921

Minor Endorsement (21 hours)

COMM 1780, 1781, 2321, 4922; THEA 1411, 1561, 4921.

12. SPEECH AND DRAMA

Major Endorsement (36 hours)

COMM 1780, 1781, 2321, 2781 or 3322, 3341 or 4341, 4922; THEA 1411, 1561, 2530, 3521, 3542 (3 hours), 4921

Minor Endorsement (21 hours)

COMM 1780, 1781, 2321, 4922; THEA 1411, 1561, 4921.

REQUIREMENTS FOR MAJORS AND MINORS

Curriculum and Instruction

The Department of Curriculum and Instruction offers majors and minors in elementary education and secondary education, and a major in early childhood education.

ELEMENTARY EDUCATION

1. Major (45 hours)

EDFD 2011, EDPS 2111, 3121; and ELED 3412, 3251, 3261, 3271, 4242, 4243, 4821 (9 hours); CIED 3301, 4344, SPER 2000.

The following must also be completed: (1) the requirements of general education, (2) the elementary endorsement. The Minor: Same as elementary education major.

SECONDARY EDUCATION

The Major: (30-33 hours)

EDFD 2011; EDPS 2111, 3121; SCED 4441, 4841; SPER 2000; appropriate secondary school methods courses, one elective appropriate for secondary school teachers. The requirements of general education and at least one major endorsement must be completed.

The Minor: Same as secondary education major.

EARLY CHILDHOOD

The Major: (36 hours)

EDFD 2011; EDPS 2111, 3121; and ELED 3412, 4212, 4242 (6 hours), 4811 (9 hours), and SPER 2000.

The following must also be completed: (1) the requirements of general education.

2. Supportive Content (30 hours)

SAFE 2102, humanities three hours (elective from applied art or applied science); MATH 2581; science 3 hours (elective from biology or earth science plus science listed in General Education); social science six hours (elective from anthropology, economics, geography or sociology); COMM 2101 or THEA 1411.

3. Electives (15-18 hours)

EDFD 2101 and 4101; ELED 2211, 3212, and 4411.

4. *Area of Specialization (6-12 hours)

A minimum of six hours and a maximum of twelve hours constituting an area of specialization. Selective advisor for areas requiring more than six hours. Examples of areas of specialization presently identified are: elementary education, library service, mathematics, child development, geography, biology, special education, physical education, health, reading and language, psychology, and sociology.

5. Electives (5-11 hours)

*At least nine (9) upper division hours must be included in the area of specialization and/or from the electives.

Health Physical Education, and Recreation

Majors and/or minors are offered in (1) health, (2) physical education, and (3) recreation and park administration. The recreation and park administration major will not satisfy requirements for teacher certification or for any endorsement area in The College of Education.

PHYSICAL EDUCATION

Major: (60 hours)

The Major: (60 hours) Concentration in Elementary Physical Education: (52 hours)

PHED 1103, 1581, 1621, 1713, 1813, 1922, 1931, 2003, 2903, 3303, 3403, 3703, 3816, 3826, 3836, 3846, 4204

One two-hour elective in an individual activity.

BIO 1631, 1632

Concentration in Secondary Physical Education: (57-58 hours)

PHED 2102 or 3502; PHED 1103, 1502, 1572, 1621, 1713, 1813, 1923, 2003, 2903, 3203, 3303, 3403, 3503, 3703, 4204, 4503

For Men: PHED 1431, 1941, and two of the following: PHED 2103, 2203, 2303, 2403, 2503, 2803

For Women: PHED 1821, 1921, 3103

BIO 1631, 1632

The Minor: (Choose concentration in Elementary or Secondary Physical Education)

Concentration in Elementary Physical Education: (43 hours)

PHED 1102, 1581, 1621, 1713, 1813, 1922, 1931, 2003, 2903, 3303, 3403, 3703, 3816, 4204, and one of the following: PHED 3816, 3826, 3836

One two-hour elective in an individual activity.

BIO 1631, 1632

Concentration in Secondary Physical Education: (45-46 hours)

PHED 1103, 2903, 3303, 3403, 3703, 4204, 4503

Choose alternative A or B

A. Two of the following: PHED 2103, 2303, 2403, 2503, 2903

B. One of the following: PHED 3103, 3203, 3503

Eight activity courses:

For Men: PHED 1431, 1502, 1572, 1621, 1713, 1813, 1922, 1941

For Women: PHED 1502, 1572, 1621, 1713, 1813, 1921, 1923

BIO 1631, 1632

HEALTH EDUCATION (GRADES K-12)

The Major: (43 hours)

HLTH 1102, 1202, 1302, 3202, 4102, 4702; SAFE 2102, 2202; BIO 1631, 1632, 3400 or 1400; CHEM 1000; HMEC 2202.

Electives (3 hours) to be chosen from the following academic

ic areas in consultation with advisor. biology, educational foundations, elementary education, guidance, health education, home economics, physical education, psychology, secondary education, sociology, and special education. Courses required in general education and professional education programs cannot be used to satisfy by health education electives.

The Minor (33 hours)

HLTH 1102, 1202, 1302, 3202, 4102, SAFE 2102; BIOL 1631, 1632, 3400, 3401, 4100, HMEC 2202.

Electives (12 hours) to be chosen from the areas listed for major endorsement electives.

NOTE: It is recommended that CHEM 1000 be taken to satisfy the second area of science required in General Education.

RECREATION AND PARK ADMINISTRATION

The Major (36 hours) Education minor (61 hours)

EDUC 1100, 1101, 1102, any two of the following: 2101, 2102, 2103, 2104, 2105, 2106 (12 hours)

Natural Sciences: 9 hours (including one two-semester laboratory sequence) in two of the following sciences: biology, chemistry, physics, earth sciences (deficiencies for purposes of this requirement to include GEOL 1000, 1102, 4111, 4121, 4122, 4131, and any course in geology.)

HIST 2601, 2602

PSYC 1001, 1102

SOCI 1111, elective (3 hours)

ANTH 1101, elective (3 hours)

MATH 1181, or any higher number

Humanities: one course from two of the following areas: art, music, drama

COMM 1101 or 1131 or THEA 1411

Journalism (elective 6 hours)

Physical Education Activities (4 hours)

Related Areas of Study (12 hours)

HLTH 1102, SAFE 2102

EDPS 2111, 3121

Professional Areas of Study (38 semester hours)

REC 2101, 2102, 3005, 3006, 3405, 3605, 3705, 4105, 4405, 5505, 5515 (19 hours)

Electives (21 hours) to be selected by student and advisor to strengthen special interest areas as follows: Public Recreation and Parks, Outdoor Recreation, Therapeutic Recreation and Youth Organization.

Department of Home Economics and Distributive Education

A cooperative relationship exists with the Fashion Institute of Technology in New York City, whereby Home Economics-Merchandising majors may enroll for one semester of study in New York with the semester hours earned being transferred toward graduation at Memphis State University.

The major in Home Economics requires the completion of (1) core requirements and (2) the requirements for one of five concentration areas. These requirements are in addition to University requirements and required courses of The College of Education. All major subject matter courses must be completed before the professional semester required in the Merchandising concentration. Students in all five concentrations must complete the application for practicum by mid-term of the semester before taking the practicum. Students may obtain the form from the major advisor.

HOME ECONOMICS

The Major (36 hours)

Cores Requirements: (20 hours)

HMEC 1100, 1101, 1104, 2101, 2202, 3405, 4100, 4103

Concentrations

a. Dietetics (85 hours):

HMEC 2102, 3204, 3302, 3602, 4102, 4402, 4502, 4802;

CHEM 1111, 1112, 3301, 3302, 3311, 3312, 4511, 4512;

BIOI 1631, 1632, 3500; ECON 2110, 2120; MGMT 2710, 2750, 3110, 4210; EDPS 3121; ANTH 1200; MATH 1203.

b. Food Administration (57 hours)

HMEC 2102, 3302, 3602, 3708, 3802, 4502; ACTC 2010, 2020; ECON 2110, 2120, 2710, 2750, 3110, 4210, 4402; EDPS 3121; TG 3010, 3010, 4220.

c. Merchandising—Fashion (51 hours):

HMEC 1105, 2005, 2205, 3004, 4405, 4600, 4705;

Business Administration requirements (24 hours): ECON 2110, ACTC 2010, 2020, 3010, 3 hours from the B.B.A.

Marketing major core (MKTG 3012, 3610, 4080, 4901), 9 additional hours in MKTG

d. Merchandising—Home Furnishing (54 hours):

HMEC 2101, 2004, 3004, 3204, 3704, 4204, 4304, 4405, 4600, 4804;

Business Administration requirements (24 hours): ECON 2110; ACTC 2010; MKTG 3010, 3 hours from the B.B.A.

Marketing major core (MKTG 3012, 3610, 4080), 9 additional hours in MKTG.

VOCATIONAL HOME ECONOMICS

Major (41 hours)

Home Economics Core Requirements: HMEC 1100, 1101, 1104, 1105, 2101, 2102, 2202, 3004, 3204, 3405, 4100, 4103, 4400, 4600, 4705; 6 semester hours which may be applied toward graduation requirements.

The following optional concentration or certification areas require the completion of the major requirements in vocational home economics in addition to the courses specified in the desired areas. Prerequisite: All occupied major subject matter courses must be completed prior to internship.

a. Occupational Child Care Services (18 hours): HMEC 3393, 4101, 4301, 4302, 4303, 3212, 3412, 4411;

b. Occupational Clothing Services (18 hours): HMEC 3393, 3602, 3702, 3802, 4502;

c. Occupational Clothing Services (18 hours): HMEC 2205, 3393, 4035, 4315, 4405, 4505.

NOTE: These requirements are in addition to University requirements and required courses of The College of Education.

DISTRIBUTIVE EDUCATION

The Major (35-36 hours)

ECON 2110, 2120, DTEC 4621; MKTG 3010, MKTG elective (3 hours)

HMEC 4600

12 hours of electives in business administration and/or journalism directly related to the distributive education curriculum (to be chosen in consultation with advisor)

2 years of acceptable work experience in one or more marketing occupations OR HMEC 4715 (or HMEC 4804) OR MKTG 4991 or other approved University supervised occupations. The student must have one year of acceptable work experience. (4000 clock hours part time experience equals 2 years.)

The Minor (21-24 hours) Requires completion of a major endorsement (Grades 7-12)

ECON 2110, 2120, MKTG 3010, MKTG elective (3 hours): HMEC 4600, 6 hours of electives in business administration and/or journalism directly related to the distributive education curriculum (to be chosen in consultation with advisor)

2 years of acceptable work experience in one or more marketing occupations OR HMEC 4705 (or HMEC 4804) or MKTG 4991 plus one year of acceptable work experience (2000 clock hours equal one year)

Department of Special Education and Rehabilitation

The following programs lead toward certification in Special Education (grades K-12). The Department of Special Education and Rehabilitation offers a major and a minor in special education and a major in rehabilitation education.

Honors Program:

1. Grade Point Average

Upon completion of thirty semester hours, a student may obtain application forms from the department and file for acceptance into the Special Education and Rehabilitation Honors Program. The credentials of each applicant will be reviewed by the Honors Committee (to be determined by the department chairman), and will be evaluated for the following minimum requirements:

A. An overall GPA of 3.25.

B. A GPA of 3.5 in the major (SPER)

C. Two letters of reference from faculty (forms to be provided).

D. At least forty hours of service to exceptional persons.

paid or as a volunteer, and a letter of support from the supervisor(s) where the services were given.

Each applicant will be notified in writing of the Honors Committee's decision.

2. Criteria for Retention:

Once a student has been accepted into the SPER Honors Program, the following standards must be maintained.

A. An overall GPA of 3.25.

B. A GPA of 3.5 in the major (SPER).

C. Two letters of reference for each honors course attempted.

Specific details of the program may be obtained in the office of the department chairman.

SPECIAL EDUCATION

Major (39 hours)

SPER 3003, 3013, 3014, 3201, 3401, 3501, 3516, 3901, 4002, 4013, ART 3411 or TECH 4375; MATH 11B2; PHED 3303 or 3806.

Minor: (30 hours)

SPER 3003, 3013, 3014, 3201, 3401, 3501, 3516, 3901, 4002, 4013.

REHABILITATION EDUCATION

Major

1. Rehabilitation Core: (48 hours)

SPER 3901, 3911, 3912, 4902, 4903, 4941 (6 hours); SWRK 3902, 3903, 3904; PSYC 3101; DTEC 3010.

Twelve hours from the following: SCED 4631 or 3841, 3831, 4420 or 3422, 3501, 3521 or 4522, 4851, 4852.

2. Concentration areas:

a. Rehabilitation Education (36 hours):

SPER 3002, 3003, 3003, 3201, 3401, 3501, 4904 or 3012, 4905 or 3014; GUID 4621; EDPS 2111, 3121, 4112.

b. Rehabilitation of the Public Offender (36 semester hours):

SPER 3201, 3401, 3501, 4904 or 3012, 4905 or 3014; PSYC 3102.

18 semester hours of work in the fields of criminal justice, guidance, psychology or sociology selected in consultation with advisor.

c. Vocational Evaluation (33 hours):

SPER 3002, 3501, 4904 or 3012, 4905 or 3014, 4913, 4914, 4915, 4916; PSYC 3102, 3508, SOCI 4842.

Music Education

Studies in music education qualify students for teaching school music or instrumental music in the public schools. Two degree plans are offered: the Bachelor of Music Education with a concentration area in (1) School Music, (2) Instrumental Music or the Bachelor of Science in Education with endorsement in (1) School Music, (2) Instrumental Music.

BACHELOR OF MUSIC EDUCATION

The Major

The major requires the completion of (1) a group of basic music courses and (2) a group of courses in one of two concentrations areas:

1. **Basic Music:** (50-52 hours)

MUSIC 1008, 1010, 1009, 1011, 2008, 2010, 3008, 3009, 310, 3010 (10 hours)

MUHL 1001, 3301 (8 hours) (3 hours applicable to Humanities in General Education)

MUSE 2108. Requirement can be satisfied by successful completion of piano proficiency (0-2 hours). Proficiency in piano must be demonstrated within 4 hours of class piano may satisfy degree requirements (See section 8, Description of Courses, for details).

Applied Music (14) Individual lessons in major applied area including at least four semester hours of upper division credit.

Junior Recital (1)

Music Ensembles: One major ensemble for every semester of residence except for the semester of student teaching (7).

MUAP 1000: each semester of residence except for the semester of student teaching, or for each semester of individual lessons in applied music (3.5)

2. The Concentration Areas:

a. **School Music—other emphasis:** (11-13 hours)

MUSE 1112*, 1113*, 1115, 3700, 4202, 4207, 4701 (13)

*Not required of voice major

b. **Instrumental Music:** (16 hours)

MUSE 1101, 1103, 1104, 1109, 1110, 1112, 1113, 3700, 4204, 4700 (16)



The Herff College of Engineering

ORVILLE E. WHEELER, B.E., M.S.C.E., Ph.D., P.E., Dean
Room 201-D Engineering Building

ACADEMIC PROGRAMS

Department	Major	Concentration Within Major	Degree Offered
Civil Engineering	Civil Engineering*	(1) Construction Engineering (2) Environmental Engineering (3) Foundation Engineering (4) Structural Engineering (5) Transportation Engineering	Bachelor of Science in Civil Engineering (B.S.C.E.)
Electrical Engineering	Electrical Engineering*	(1) Solid State Electronics (2) Energy Conversion (3) Control Systems (4) Computer Science (5) Microwave and Antenna Systems	Bachelor of Science in Electrical Engineering (B.S.E.)
Geology	Geology		Bachelor of Science in Geology (B.S.G.)
Mechanical Engineering	Mechanical Engineering*	(1) Design and Manufacturing (2) Energy Systems (3) Mechanical Systems	Bachelor of Science in Mechanical Engineering (B.S.M.E.)
Engineering Technology	Architectural Technology*		Bachelor of Science in Engineering Technology (B.S.E.T.)
	Computer Systems Technology*		
	Construction Technology*		
	Electronics Technology*		
	Manufacturing Technology*		
	Trade and Industrial Vocational Technical Education	(1) General (2) Industrial Arts	Bachelor of Science in Technology (B.S.T.)

*Note: Accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET)

Pre-Med Engineering

The Herff College of Engineering at Memphis State University has an option for students enrolled in an engineering program. This option is called "Pre-Med Engineering". It adds another degree of flexibility to the students' options as they approach the completion of their baccalaureate degree. The program was generated in response to the students' request to qualify for entrance into a medical school in conjunction with a back-up, and highly marketable, degree in an engineering field. This idea is in concert with the changing attitudes of medical schools, who are now encouraging a variety of carefully planned baccalaureate programs. They feel that such liberalization would improve the overall spectrum and qualifications of the medical profession in its attempt to handle the ever-increasing complexity of society's health care problems.

The student interested in this pre-med engineering option should take the regular first two years of the common engineering core—including both semesters of general chemistry. As the student progresses through these first two years, he should then contact the chairman of the engineering department of his choice who is authorized to substitute the courses in organic chemistry for certain technical courses normally taken in the junior and senior years. CHEM 3311 (Organic Chemistry) and CHEM 3301 (Lab) plus CHEM 3312 and CHEM 3302 are the eight semester hours of organic chemistry, while BIOL 1200 (Botany) and BIOL 1600 (Zoology) are the courses recommended by the U.T. Medical Units admissions office and Memphis State's biology department. These courses should be taken by the student as a junior so as to assist him in taking the medical entrance examinations, probably during the senior year. Depending upon the student's schedule, time required for the undergraduate engineering degree, etc., the pre-med-engineering student may take additional biology courses, such as BIOL 3730 (Physiology) or BIOL 3620 (Comparative Anatomy). Also courses in biochemistry are appropriate, but not required.

PURPOSES

The college's function is to serve the educational and research needs of the industrial community, the metropolitan area, the state, and the nation. It accomplishes this function by providing: (1) undergraduate professional education in the principal fields of engineering, (2) undergraduate instruction for majors and minors in geology, (3) undergraduate education in both technical and educational technology, (4) graduate education in all areas, (5) a program of continuing education for the engineering and technological practitioners of the area, (6) assistance in the solution of industrial problems through utilization of physical

facilities and the professional talents of faculty and students, (7) a forum for the interchange of ideas and experiences among members of the industrial community through conferences, institutes and short courses and (8) an increase in the accumulation of knowledge in special fields of interest by a continuing program of study and research.

ORGANIZATION

The Herff College of Engineering is organized into Departments of Civil Engineering, Electrical Engineering, Geology, Mechanical Engineering, and Engineering Technology. Each offers a choice of specialized four-year programs leading to Bachelor of Science degrees and graduate programs.

The Institute for Engineering Research

The Institute for Engineering Research was founded in 1970 to promote the participation of students and faculty in research and service activities. Many interesting projects, of local and regional importance, are being actively pursued.

Facilities

The modern three-building engineering complex was occupied in 1970-71. It affords 161,110 square feet of space for offices, classrooms, and a variety of specialized laboratories equipped with modern furnishings. The engineering administration building houses the 3-story engineering library, administrative offices, auditorium, study lounges, and a batch computer terminal. The engineering laboratory building has classrooms, offices, and labs for the engineering and geology departments. The engineering technology building on the south houses the entire operation of the Department of Engineering Technology.

ADMISSION

Requirements for admission to The Herff College of Engineering for freshmen and transfer students are those for the University as a whole (described in section 2, *Admission to the University*).

High school students, in planning for careers in one of the fields of engineering, should take advantage of preparatory courses. Since engineering is the application of mathematics and physical sciences to imaginative and useful systems, those courses should be emphasized in high school preparation. Courses are available at the University for those not fully prepared. Early enrollment in the summer terms offers excellent opportunity to remove any deficiencies that may exist.

Advising

Freshman students (up to 40 semester hours credit) who choose to study in The Herff College of Engineering will be advised by an Engineering College counselor until a major has been selected; then they will be advised by a member of their major department. Because of one common core for engineering majors and another for engineering technology majors, internal changes of a student's major may be made efficiently through the sophomore year.

RESIDENCE REQUIREMENTS

Residence requirements for The Herff College of Engineering are the same as those for the University as explained in detail in section 6, *Graduation from the University*.

DEGREE REQUIREMENTS

Degrees Offered

The Herff College of Engineering comprises five departments: Civil Engineering, Electrical Engineering, Geology, Mechanical Engineering, and Engineering Technology.

All have four-year programs leading to the following degrees: Bachelor of Science in Civil Engineering, Bachelor of Science in Electrical Engineering, Bachelor of Science in Mechanical Engineering, Bachelor of Science in Geology, Bachelor of Science in Engineering Technology, and Bachelor of Science in Technology.

A five-year program leading to the Master of Science degree is recommended for those students who demonstrate high scholastic abilities. For more information about graduate programs, refer to the Graduate School *Bulletin*.

The required curriculum, including elective specialties in each of the various undergraduate programs, is described in detail in the following pages. General requirements include a minimum of 132 credit hours of approved coursework with a minimum quality point average of 2.0. A maximum of 4 hours of PHED may be applied to the 132 credit hour minimum.

Engineering Core

The following semester groupings represent the freshman and sophomore years which are common to civil, electrical, and mechanical engineering curricula.

FRESHMAN YEAR**JUNIOR YEAR**

ENGL 1101	3	ENGL 1102	3
MATH 1321	4	MATH 2321	4
ENGR 1001	1	PHYS 2511	4
ENGR 1011	2	Natural Science (See Note 1)	4
ENGR 1021	2		
CHEM 1111	4		
PHED 1— or ROTC	1-2	PHED 1— Phys. Activity† or ROTC	1-2
	17-18		16-17

†A minimum total of 4 semester credit hours of PHED and/or ROTC is required.

NOTE 1: To be selected from CHEM 1112, GEOL 1101, BIOL 1200, 1600, 1731 (mechanical engineers should take CHEM 1112).

SOPHOMORE YEAR

ENGL 21—*	3	ENGL 21—*	3
MATH 2322	4	MATH 3391	3
PHYS 2512	4	ELEC 2201, 2203	4
CIVL 2131	3	MECH 2332	3
ECON 2110	3	H & S Elective (See Note 2)	3
ROTC or PHED Activity†	1-2	ROTC or PHED Activity†	1-2
	18-19		17-18

*See section 6, *Graduation from the University*, for options.

NOTE 2: A 6 or 9 hour sequence terminating at the 3000-4000 level in humanities or social science is required. Of the total courses taken 9 semester hours must be humanities and 6 semester hours must be social sciences from an approved list.

DEPARTMENTAL REQUIREMENTS**Civil Engineering**

The civil engineering program is built upon a foundation of mathematics, physical sciences, and mechanics with supporting courses in the humanities and social studies. The curriculum affords a detailed study of the fundamental principles which comprise the professional practice of civil engineering. Career opportunities include technical or administrative positions in the areas of planning, design, construction, and maintenance of all types of public and private civil engineering projects.

To qualify for the degree of Bachelor of Science in Civil Engineering a student must complete the sequence outlined below. (For the freshman and sophomore years, see the common engineering core previously listed.)

SENIOR YEAR

CIVL 4141	3	CIVL 3141	3
CIVL 4151	4	CIVL 4135	3
CIVL 4161	3	CIVL Engr. Elective (See Note 4)	6
Civil Engr. Elective (See Note 4)	3	Technical Elective (See Note 3)	3
H & S Elective (See Note 2)	3		
	16		15

NOTE 2: A 6 or 9 hour sequence terminating at the 3000-4000 level in humanities or social science is required. Of the total courses taken 9 semester hours must be humanities and 6 semester hours must be social sciences from an approved list.

NOTE 3: Upper division course in engineering, mathematics, physics, advisor's approval required.

NOTE 4: Upper division course in civil engineering—adviser's approval required.

Areas of specialization include environmental engineering, structural analysis and design, foundation engineering, transportation engineering, and construction engineering.

CIVIL ENGINEERING

The Major: 40 semester hours in civil engineering courses including CIVL 3101, 3111, 3121, 3122, 3131, 3141, 4135, 4141, 4151, 4161 and 9 hours of civil engineering elective courses. A student may select courses from the following concentrations to satisfy the required 9 semester hours of civil engineering electives and the 3 semester hours of technical electives required for a Bachelor of Science in Civil Engineering:

- Environmental Engineering:** CIVL 4143, 4144, 4148, 4191
- Foundation Engineering:** CIVL 3135, 4152, 4191
- Structural Engineering:** CIVL 3135, 4131, 4136, 4152, 4162, 4164, 4191
- Transportation Engineering:** CIVL 3135, 3136, 4152, 4172, 4173, 4174, 4191
- Construction Engineering:** CIVL 3135, 4164, 4171, 4172, 4173, 4174, 4191

Electrical Engineering

Students enrolled in electrical engineering are offered a modern, well-balanced curriculum which is designed to provide a thorough background and understanding of the theoretical and physical principles of electric and magnetic phenomena. The concepts and techniques of mathematics and physics are applied in a wide variety of studies designed to guide the student into a career which will enable him to contribute to the design, construction, and utilization of products which are beneficial to man. At the same time, the curriculum provides adequate flexibility for the student to specialize in one of the many diverse and exciting areas of space age technology.

Laboratory facilities are available for a wide variety of instructional and research activities. These facilities are located in a new engineering building which provides the latest advances in equipment and facilities.

Career opportunities include positions in development and design, research, sales, management, manufacturing, and construction. Some of the technical areas of opportunity lie in the design, development and use of analog and digital computers, communications systems, power generation and distribution systems, microwave and antenna systems, automatic control systems, and general instrumentation. An undergraduate student, with the approval of the department chairman, may also elect to take special technical and humanities and social science electives which satisfy the course entrance requirements for medical school.

The Department of Electrical Engineering offers a Master of Science degree for those electrical engineers who desire advanced study in the areas of hybrid computers, microwave and antenna systems, communications systems, solid state electronics and automatic control systems.

The minimum requirements for the degree of Bachelor of Science in Electrical Engineering are as follows (for the freshman and sophomore years, see the common engineering core previously listed). An average grade of "C" must be maintained in all undergraduate electrical engineering course work.

JUNIOR YEAR

ELEC 3201	4	ELEC 3202	3
ELEC 3211, 3213	4	ELEC 3212	4
MECH 3311	3	ELEC 3221	3
Technical Elective (See Note 3)	6	ELEC 4211	3
	17	H & S Elective (See Note 2)	3
	16		

SENIOR YEAR

ELEC 4201, 4203	4	ELEC 4231	3
ELEC 4212	4	Elec. Engr. Elective (See Note 4)	6
Elec. Engr. Elective (See Note 4)	4	Technical Elective (See Note 3)	4
H & S Elective (See Note 2)	3	H & S Elective (See Note 2)	3
	15		16

NOTE 2: A 6 or 9 hour sequence terminating at the 3000-4000 level in humanities or social science is required. Of the total courses taken 9 semester hours must be humanities and 6 semester hours must be social sciences from an approved list.

NOTE 3: Upper division course in engineering, mathematics, physics, advisor's approval required.

NOTE 4: Upper division courses in electrical engineering, such as: ELEC 4202, 4213, 4221, 4222, 4240, 4241, 4251, 4261, 4271, 4991-4992.

ELECTRICAL ENGINEERING

The Major: 42 semester hours of electrical engineering courses including ELEC 3201, 3202, 3211, 3212, 3213, 4201, 4203, 4211, 4212 and 4231. The remaining semester hours are to be selected from courses to be elected from one of the following areas of concentration. The program also includes 7 semester hours of technical electives which students may utilize to broaden their base of knowledge.

a. **Solid State Electronics:** ELEC 3222, 4221, 4222, 4240 and 4241.

b. Energy Conversion: ELEC 3222, 4202 and 4205.
 c. Control Systems: ELEC 3220, 4215, 4216, 4251 and 4261.
 d. Computer Science: ELEC 3220, 4215, 4222, 4230, 4232, and 4270.
 e. Microwave and Antenna Systems: ELEC 4213, 4230 and 4232.

NOTE: Projects I or II, ELEC 4991 or 4992 can be taken for 3 semester hours credit in any of the areas of concentration.

Mechanical Engineering

Mechanical engineering is a broad field, and consequently students are offered a balanced curriculum designed to provide a strong foundation in mathematics, physical sciences and the engineering sciences. Moreover, they study humanities and social sciences to understand more fully the engineer's relationship and responsibilities to society. Finally, mechanical engineers cultivate, through advanced courses in engineering design and synthesis, the ability to apply this knowledge to the analysis and solution of significant engineering problems.

Because of the diverse nature of his work, the mechanical engineer must have a basic knowledge of chemistry, physics, mathematics and the classical disciplines of mechanical engineering, thermo sciences, mechanical sciences, materials sciences and modern techniques of engineering analysis, design and optimization. His diverse background uniquely equips the mechanical engineer to work on a variety of challenging problems involving transportation systems, including land and marine vehicles, aircraft and spacecraft, air conditioning systems, nuclear reactors and fuel cells, low pollution devices and a host of other devices.

To qualify for the degree of Bachelor of Science in Mechanical Engineering the student must satisfy general University requirements, have a "C" or better in all mechanical engineering courses, and complete the following curriculum (for the freshman and sophomore years, see the common engineering requirements previously listed.)

JUNIOR YEAR

MECH 3311	3	ELEC 3211	3
MECH 3331	4	MECH 3312	3
MECH 3321	3	MECH 3323	3
MECH 3322	4	MECH 3361	4
CIVL 3141	3	MECH 3341	3
<hr/>		<hr/>	
17		16	

SENIOR YEAR

MECH 4311	3	ELEC 4201 or	
MECH 4322	2	MECH 4312	3
MECH 4344	3	MECH 4323	2
MECH ENGR ELEC (See Note 4)	3	MECH ENGR ELEC (See Note 4)	3
TECHNICAL ELEC (See Note 3)	3	TECHNICAL ELEC (See Note 3)	3
H & S ELEC (See Note 2)	3	H & S ELEC (See Note 2)	3
<hr/>		<hr/>	
17		14	

NOTE 2: A 6 or 9 hour sequence terminating at the 3000-4000 level in humanities or social science is required. Of the total courses taken 9 semester hours

must be humanities and 6 semester hours must be social sciences from an approved list.

NOTE 3: Upper division course in engineering, mathematics, physics, etc., in support of concentration area. Advisor's approval required.

NOTE 4: An upper division semester hour concentration in mechanical engineering courses to gain depth in such areas as Energy Systems, Fluid Power Systems, Mechanical Systems, and Design and Manufacturing, is required.

The mechanical engineering curriculum provides for an element of specialization by way of preference programs in design and manufacturing, energy systems, mechanical systems, and fluid power systems.

Mechanical Engineering

As part of the requirements for a degree of Bachelor of Science in Mechanical Engineering a student may choose one of the following concentration areas:

a. Design and Manufacturing
 MECH 4325, 4345, 4361, 4381, 4382.
 b. Energy Systems (4 of the following courses):
 MECH 4313, 4315, 4316, 4317, 4318.
 c. Mechanical Systems
 MECH 4303, 4325, 4346, 4371.

Geology

The undergraduate degree offered by the Department of Geology is the Bachelor of Science in Geology. This major allows the student flexibility in that he can select a broad background in geology, or he can select an area for emphasis which can be continued at the graduate level. In addition to the University requirements (see section 6, *Graduation from the University*), detailed requirements are as follows:

GEOLOGY

The Major: 36 semester hours in geology courses, including GEOL 1101, 1201, 2311, 2312, 3211, 3512, 3712, 4622, and additional upper division semester hours as approved by the advisor. CHEM 1111, 1112; MATH 1321; PHYS 2511.

Electives: 30 hours which include:

(a) Social Sciences: courses offered by the departments of sociology, anthropology, economics, geography (other than physical), history, political science and psychology.
 (b) Humanities: courses offered by the departments of art, English, foreign languages, music, philosophy, and communication and fine arts.

These electives must include:

(1) 12 semester hours in the humanities, including at least six semester hours in one of the following languages: French, German, Japanese, Russian or Spanish.
 (2) 6 semester hours in the social sciences and

Electives to bring the total to 132 hours. Electives are to be chosen only with the consent of the advisor.

The Minor: A minimum of 18 semester hours in geology courses, including GEOL 1201. Six of these hours must be selected from upper division courses.

Engineering Technology

Engineering Technology is that part of the technological field which requires the application of scientific and engineering knowledge and methods combined with technical skills in support of engineering activities. The Department of Engineering Technology offers five majors leading to the degree Bachelor of Science in Engineering Technology. These areas are Architectural Technology, Computer Systems Technology, Construction Technology, Electronics Technology, and Manufacturing Technology. The Department of Engineering Technology also offers a major in Trade and Industrial Vocational-Technical Education which leads to the Bachelor of Science in Technology degree.

A grade of "C" or better must be attained in all upper division (3000-4000) engineering technology courses required in each major.

ENGINEERING TECHNOLOGY CORE

(Bachelor of Science in Engineering Technology, excluding Computer Systems Technology Major)

FRESHMAN YEAR

ENGL 1101	3	ENGL 1102	3
MATH 1213	3	MATH 1321	4
TECH 1411	1	TECH 1811	3
TECH 1511	3	TECH 2555	4
TECH 1010	3	TECH 1611	(3)
TECH 1711	3		
*ROTC or *PHED Activity		*ROTC or *PHED Activity	
17-18		18-19	

SOPHOMORE YEAR

ENGL 21—	3	ENGL 21—	3
PHYS 2111	4	PHYS 2112	4
TECH 2944	4	CHEM 1051	4
TECH 1451	3	TECH 3350	3
(See Note 1)		(See Note 3)	
COMM 1311	3	TECH 2511	3
(See Note 2)		(See Note 4)	
*ROTC or *PHED Activity		*ROTC or *PHED Activity	
1-2		1-2	
18-19		18-19	

See section 6, *Graduation from the University*, for options.

*A minimum total of 4 sem. hrs. of P.E. and/or ROTC is required for graduation.

NOTE 1: Electronics majors take TECH 1821.

NOTE 2: Electronics majors take TECH 2821.

NOTE 3: Electronics majors take COMM 1311. Architecture majors take TECH 1555. Construction majors take TECH 2431.

NOTE 4: Electronics majors take TECH 2831. Construction majors take TECH 3451 or 3591.

ARCHITECTURAL TECHNOLOGY

Architectural Technology is that branch of Engineering Technology that concerns itself with those phases of architectural and engineering design as related to buildings. The purpose of the program is to teach design principles and drafting techniques in preparation for tasks that are now required of the architect and the engineer. The course offerings are engineering oriented with emphasis on architectural practices and principles.

JUNIOR YEAR

HIST 2601	3	HIST 2602	3
TECH 3400	3	TECH 3491	3
TECH 3531	3	TECH 2561	3
TECH 2556	3	TECH 3401	3
TECH 2431	3	TECH 4525	3
TECH 3601	3	Elective (TECH)	3
<hr/>		<hr/>	
18		18	

SENIOR YEAR

TECH 3471	3	TECH 4520	3
TECH 3520	4	TECH 4515	4
TECH 3411	3	TECH 4944	3
TECH 4530	3	TECH 3472	3
Elective (TECH)	3	Elective (General)	3
	16		16

CONSTRUCTION TECHNOLOGY

This four-year program is for students who are interested in preparing for professional careers in construction management, techniques, operations and different areas of the construction industry. As one of the biggest industries in the world, construction has dire need for many young men and women trained for the construction industry or related fields.

JUNIOR YEAR

HIST 2601	3	HIST 2602	3
TECH 3400	3	TECH 3386	3
TECH 3411	3	TECH 3401	3
FIR 3310	3	TECH 3491	3
TECH 3531	3	Elective (General)	6
TECH 3601	3		
	18		18

SENIOR YEAR

TECH 3412	3	TECH 3472	3
TECH 3414	3	TECH 4520	3
TECH 3471	3	TECH 4510	3
Elective (Technical)	3	MGMT 4420	3
TECH 3440	3	Elective (Technical)	3
	15		15

ELECTRONICS TECHNOLOGY

This major, for the student especially interested in the practical application of electronics theory, provides both theory and techniques related to communications, instrumentation, and computer systems. "Hands on equipment" approach is emphasized, and most modern equipment found in industry is employed. Specific requirements for this area are as follow:

JUNIOR YEAR

HIST 2601	3	HIST 2602	3
TECH 3440	3	TECH 2431	3
TECH 1451	3	TECH 3822	4
TECH 3811	3	TECH 4801	4
TECH 3821	3	TECH 4832	3
TECH 4831	3		
	18		17

SENIOR YEAR

TECH 3411	3	TECH 4381	3
TECH 3841	3	TECH 4811	3
TECH 4821	4	TECH 4841	3
TECH 4834	4	TECH (Elective)	3
Elective (General)	3	Elective (General)	3
	17		15

MANUFACTURING TECHNOLOGY

This area of study is designed for students interested in directing men, materials, and machines to efficient production in a manufacturing establishment. Areas of opportunity for a student having a background in Manufacturing Technology include production management and supervision or positions in specialized staff groups such as Industrial Engineering, Manufacturing Engineering, Quality Assurance, Process Engineering, or Safety Technology.

JUNIOR YEAR

HIST 2601	3	HIST 2602	3
TECH 4462	3	TECH 3386	3
TECH 2431	3	TECH 3401	3
TECH 3611	3	TECH 3421	3
TECH 3400	3	TECH 3401	3
TECH 3440	3	TECH 4460	3
TECH 3411	3	TECH 3573	3
	16		16

JUNIOR YEAR

HIST 2601	3	HIST 2602	3
TECH 4462	3	TECH 3386	3
TECH 2431	3	TECH 3401	3
TECH 3611	3	TECH 3491	3
TECH 3310	3	TECH 3491	3
TECH 3531	3	Elective (General)	6
TECH 3601	3		
	18		18

SENIOR YEAR

TECH 4462	3	TECH 4381	3
TECH 4464	3	TECH 4466	3
TECH 4470	3	TECH 4472	3
TECH 3718	3	TECH 4571	3
Elective (TECH)	3		
	15	Elective (General)	3
	15		15

COMPUTER SYSTEMS TECHNOLOGY

This area of study is designed to prepare for positions that require a knowledge of programming and the application of computers in various industries. Electives may be selected to provide a strong background in one or more areas of study.

FRESHMAN YEAR

ENGL 1101	3	ENGL 1102	3
MATH 1213	3	MATH 1321	4
TECH 1010	3	TECH 1811	3
TECH 1411	1	TECH 2251	4
TECH 1511	3	TECH 4261	1-2
TECH 1611			
or			
TECH 1711	3		
†PHED Activity	1-2		
	17-19		15-16

SOPHOMORE YEAR

ENGL 210-	3	ENGL 210-	3
PHYS 2111	4	PHYS 2112	4
TECH 2944	4	CHEM 1051	4
COMM 1311	3	TECH 2261	3
TECH 2431	3	TECH Elective	3
†PHED Activity	1-2	†PHED Activity	1-2
	18-19		18-19

†A minimum total of 4 semester hours of Physical education activity and/or ROTC is required for graduation.

JUNIOR YEAR

HIST 2601	3	HIST 2602	3
TECH 4462	3	TECH 3421	3
TECH 4831	3	or	
TECH 2431	4	TECH 3350	3
Elective (General)	3	TECH 3271	4
	16	TECH 4381	3
		Technical Elective (TECH 4832 or programming)	3
	16		16

SENIOR YEAR

TECH 4261	4	TECH 4271	4
TECH 4834	4	TECH 4835	4
COMP 4040	3	TECH 4944	3
TECH 4472	3	MGMT 4420	3
Elective (Technical)	3	Elective (General)	3
	17		17

TRADE AND INDUSTRIAL VOCATIONAL-TECHNICAL EDUCATION

(Bachelor of Science in Technology)

This major is designed for students planning a teaching career in Trade and Industrial Education, Technical Education or Industrial Arts Education. Emphasis can be placed on either the secondary or the post secondary school program. The student may major in Trade and Industrial Vocational-Technical Education with a general concentration or with a concentration in Industrial Arts. Specific requirements are as follows:

FRESHMAN YEAR

ENGL 1101	3	ENGL 1102	3
MATH 1213	3	HLTH 1121	3
(Note 1)	3	COMM 1311	3
VTED 1011	3	*Occup. Spec. (Note 2)	3
*Occup. Spec. (Note 2)	3	Science/lab (Note 3)	3-4
Science/lab (Note 3)	3	ROTC OR	2
ROTC OR	2	PHED Activity	2
	17-18		17-18

*See advisor for specific courses. Occupational Specialty courses to be taken by students who do not have adequate work experience to meet certification requirements.

NOTES FOR INDUSTRIAL ARTS CONCENTRATION:

1. MATH 1213.
2. TECH 1511, 1711.
3. CHEM 1051: PHYS 1111, 1112.

SOPHOMORE YEAR

ENGL 21--	3	ENGL 21--	3
HIST 2601	3	HIST 2602	3
PSYC 1101	3	SPER 2000	3
Occup. Spec. (Note 2)	3	VTEC 1110	3
Science/lab (Note 3)	3	(Note 2)	3
TECH 2431	3	EDPS 3121	3
(Note 2)	3	(Note 4)	3
	18-19		18

*See advisor for specific courses. Occupational Specialty courses to be taken by students who do not have adequate work experience to meet certification requirements.

NOTES FOR INDUSTRIAL ARTS CONCENTRATION:
 2. TECH 1611, 2555, 3601 or 3611, 3718.
 3. CHEM 1051: PHYS 1111, 1112.
 4. Take EDFD 2011 instead.

General Concentration:

JUNIOR YEAR

EDRS 4511	3	EDPS 4112	3
VTED 4120	3	TECH 4363	3
*Occu Spec.	6	*Occu Spec.	3
VTED 4140	2	VTED 4210	3
TECH 4361		Elective	3
—	17	—	15

*See advisor for specific courses. Occupational Specialty courses to be taken by students who do not have adequate work experience to meet certification requirements.

SENIOR YEAR

*Occu Spec.	3	VTED 4611	3
VTED 4220	3	VTED 4841	3
Electives	3-9	or	3
		VTED 3301	3
		Electives	3-9
	9-15	—	—
	—	15	—

*See advisor for specific courses. Occupational Specialty courses to be taken by students who do not have adequate work experience to meet certification requirements.

Industrial Arts Concentration:

JUNIOR YEAR

TECH 1811	3	TECH 1821	3
TECH 3410	3	or	3
*ART 2213	3	TECH 3831	3
EDPS 2111	3	EDRS 3121	3
VTED 4120	3	EDPS 4112	3
*ART 2221	3	VTED 4210	3
VTED 4120	3	TECH 4355	3
—	15	—	18

*JOUR 2520 may be substituted for either Art course.

SENIOR YEAR

TECH 4361	3	Elective	3
TECH 4362	3	VTED 4841	9
TECH 3350	3	Elective	—
Elective (Soc. Sci.)	3	(Prof Ed)	3
Elective (Hum.)	3	—	—
	—	15	—

THE MINORS

These minors may be selected by students who have majors *other than* any of the Engineering Technology majors.

SAFETY:

TECH 2431, 3386, 4525, 4470, 4950, 4961; PSYC 3301; MGRM 3110, BIOL 1631.

SURVEYING:

GEOG 3501, 3511; TECH 1411, 1451, 1511, 3451, 3591; MATH 1213, 1321.

TECHNOLOGY:

TECH 1411, 1511, 1711, and 15 additional semester hours in technology courses, 9 semester hours of which must be from the upper division in one of the specific technology areas.

The University College

H. RAMSEY FOWLER, A.B., A.M.T., Ph.D., *Dean*
Room G-1, Johnson Hall

ACADEMIC PROGRAMS

Department	Major	Concentration Within Major	Degree Offered:
*	Individual Studies	**	Bachelor of Liberal Studies (B.L.S.) Bachelor of Professional Studies (B.P.S.)

*The College is not comprised of departments. Its programs are interdisciplinary and may make use of all departments in the University.

**The student and an advisory committee design contract degrees.

PURPOSE

The University College offers nontraditional degrees for those students whose experience, talents, and interests are best served through a program which emphasizes personally designed education. Through the University College, faculty, students, and off-campus professionals have the opportunity to work together unrestricted by departmental or college boundaries. The college provides individually designed programs for persons whose career goals, academic needs and interests are not met by existing majors, but by appropriate combination of integrative interdisciplinary courses offered by the University College, existing courses offered by other colleges, credit by examination, credit for non-traditional learning, and internship experiences. For faculty across the University, the University College provides the structure to explore and develop interdisciplinary ventures that may later be subsumed into other degree-granting units. The college seeks to create and maintain a spirit of academic community through careful and concerned advising, and interaction outside the classroom among students, faculty, and staff. The Bachelor of Liberal Studies and Bachelor of Professional Studies degree programs are complementary to the University's role of meeting the academic needs of a diverse population in an urban setting.

ORGANIZATION

The University College both depends upon and contributes to existing programs at the University through creative use of existing faculty and programs to satisfy legitimate degree program needs which are not currently met. The college has no permanent or full-time faculty of its own; it draws instead on the faculty of other colleges of the University for instructors and advisors. These faculty members serve on a short-term basis while maintaining primary affiliation with their own departments. The knowledge

and experience of the faculty from several disciplines enables the University College to offer truly interdisciplinary courses and a broader base for effectively advising students. At the same time, faculty serving the University College gain new perspectives and associations which they may contribute to their own colleges.

The Faculty Council is composed of twelve faculty members from the other five colleges of the University. The Council is jointly responsible with the Dean of the University College in establishing requirements for the selection of the faculty, determining admissions, curriculum and degree requirements, and approving group contract degrees designed for students with similar program needs. In addition, the Council gives advice and counsel to the dean. The students of the University College also serve an advisory role to the Faculty Council and the dean.

ADMISSION

After an applicant has been admitted to Memphis State University through the Office of Admissions and Records, he may apply for admission to the University College in the Office of the Dean. (See Section 2 of the *Bulletin* for admission to the University.) The University College welcomes inquiries from persons who believe that their interests will be best served by a program which emphasizes personally designed education through contract degrees.

Included in the University College application are a statement of the applicant's educational and career goals and his reason for seeking to fulfill them by means of University College program. Three letters of recommendation and a \$15.00 screening fee must be submitted, as well as descriptions of work experience, interests and activities related to career goals.

A letter from the Dean of the University College assigns the applicant to a temporary advisor for a screening interview, the purpose of which is to determine if the applicant's needs are best met in the University College or elsewhere. If the temporary advisor recommends acceptance and the dean agrees, the student

receives a letter of acceptance from the dean instructing him to confer with the temporary advisor on forming a Contract/Advising Committee, and reminding him that he must pay a \$25.00 contract/advising fee before the committee meets. The Contract/Advising Committee works with the student to develop a degree program which serves the student's needs and meets the academic requirements of the University College and of Memphis State University.

A student may transfer into University College more than the ordinary limit of extension, correspondence or armed services courses, provided they are an integral part of the degree program. A minimum of 60 semester hours of the degree program must be received from a four-year institution.

RESIDENCE REQUIREMENTS

The usual residence requirements of Memphis State University obtain: 33 of the final 66 semester hours required for the degree must be completed at Memphis State University; see section 6, *Graduation from the University*.

THE UNIVERSITY COLLEGE DEGREES

The Contract Degree

Students enrolling in the University College may elect either of two degree programs: the Bachelor of Liberal Studies (BLS) or the Bachelor of Professional Studies (BPS). Both of these degrees must be awarded for programs which are systematic, yet are sufficiently flexible to permit students and advisors to design individual programs of study, i.e., learning contracts.

All contracts will be reviewed and approved by the administration of the University College, but individual contracts will be designed by a Contract/Advising Committee whose responsibility is to assist the student in the development and execution of a degree program which serves the student's needs and

meets the academic requirements of the University College and of Memphis State University. The chairperson of that committee must be a faculty member of Memphis State University; the remaining committee members may be appropriate student or off-campus resource persons. The committee may direct the student in the preparation of a portfolio to obtain credit for knowledge gained through experience or non-traditional instruction; see section 3, *Fees and Charges*, for a description of credit evaluation fees. The Baccalaureate Contract will include work in three major areas: Liberal Studies, Thematic Studies and Individualized Studies.

Liberal Studies

Liberal Studies constitute the general education component of the University College. The studies are designed to develop a capacity for effective living through emphasis on integration of the academic disciplines as well as through analytic skills. Each Liberal Studies course is taught by a faculty team drawn from different disciplines; each course examines the values which form the basis of decisions and judgments. The Liberal Studies area is composed of six studies, plus Mathematics 1181, another mathematics course at the same level or above, or Philosophy 1611. These courses total 37 semester hours and serve as a core for both degrees; they are to be completed by all BLS and BPS candidates. Although the specific content of the courses will vary from semester to semester, general course descriptions are included in the *Bulletin*. Although this component of the program is interdisciplinary, provision is made for transfer credit from other colleges and credit by examination. Each student will complete a minimum of one Liberal Studies course.

Thematic Studies

Thematic Studies cross departmental and disciplinary lines to examine a theme, problem, issue or epoch from several points of view. As upper-division courses, they are designed to provide ways for undergraduates to integrate the full scope of their studies more effectively than they are able to do within the traditional departmental structure. Thematic Studies do, however, require the special knowledge and expertise learned from and fostered by the traditional disciplines. A BLS student will complete a minimum of two Thematic Studies; a BPS student, a minimum of one. Thematic Studies courses carry 6 to 9 semester hours credit each.

Individualized Studies

Individualized Studies comprise more than half of a student's degree contract. Of the 132 semester hours minimum credit required for a degree from Memphis State University, 77 hours of Individualized Studies are required of a BLS student, 86 hours of a BPS student.

COORDINATED STUDY PROGRAM

The Individualized Study component of the program includes a Coordinated Study Program of at least 30 upper-division hours in at least two academic disciplines, plus a special synthesizing project (9 semester hours). Credit may be earned through courses offered by departments in the other degree-granting colleges, credit by examination, credit for experiential learning, internships or apprenticeships, independent studies, additional Thematic Studies courses, and the Special Project. For a University College student, the Coordinated Study Program corresponds to a departmental major. Students must average C or above in 30 upper-division hours of their Coordinated Study Program. Examples of Coordinated Study Program areas follow:

B.P.S.

Aviation Administration
Commercial Aviation
Human Services
Health Care Education
Human Resource Management
Nuclear Industrial Operations
Fire Science Administration
Services for the Aging
Horticulture

B.L.S.

Language and Mind
Black Studies
Cross-Cultural Comparison of Art
Humanities
Fine Arts in Promotion
Women's Studies

Black Studies

Interdisciplinary degree programs in Black Studies may be completed in University College, leading to the degree Bachelor of Liberal Studies. Through a contract degree, a student in University College may construct a Coordinated Study which meets individual career goals. A minor in Black Studies is also open to students majoring in a traditional discipline or interdisciplinary field in one of the other undergraduate colleges.

BLACK STUDIES

The *Coordinated Study*: Upon admission to University College a student will design a degree contract with the aid of a faculty advisory committee. Advising guidelines are available from University College.

The *Minor*: 18 semester hours, including 9 hours from core courses and 6 hours from electives:

- (a) Core Courses: ENGL 4371, HIST 4881, either COMM 2361 or POLS 4407.
- (b) Electives: 1 ANTH 3422; MUHL 2101; POLS 4212; SOCI 3401; 3422, 4420; COMM 3373, 4373, 4375; THEA 3461.

Religion in Society

The University College offers an interdisciplinary minor in Religion in Society. This minor examines the role of religion in society as seen from the perspectives of culture and social organization; of history and philosophy; of art and literature. The minor is open to students majoring in any area in any of the undergraduate colleges or to special students who wish to enroll in order to take such a program.

Religion in Society

The Minor: 18 semester hours of core courses and electives.

A. Required Core Courses

PHIL 3701	God and Man	(3)
ANTH 4253	Anthropology of Religion	(3)
SOCI 3860	Sociology of Religion	(3)

B. Additional Courses (select one course each from any three of the following four groups of courses):

ANTH 3352	Archaeology of the Holy Land	(3)
POLS 3120	Religion and Politics	(3)
PHIL 3451	Contemporary Moral Problems	(3)
PHIL 3452	Existentialism	(3)
PHIL 3721	Philosophy of Religion	(3)
PHIL 3721	Oriental Philosophy	(3)
HIST 3021	History of the Christian Church	(3)
HIST 3431	Traditions of Christianity	(3)
HIST 4361	History of the Byzantine Empire	(3)
HIST 4371	Early Middle Ages	(3)
HIST 4372	High Middle Ages	(3)
HIST 4373	Later Middle Ages	(3)
4 ENGL 4461	Biblical Literature	(3)
ART 4131	Early Christian and Byzantine Art	(3)
ART 4134	Romanesque and Gothic Art	(3)
MUHL 3421	Orthodox Christian Music	(3)
MUSA 4104	Sacred Music in History & Practice I	(3)
MUSA 4105	Sacred Music in History & Practice II	(3)

Women's Studies

Interdisciplinary degree programs in Women's Studies may be completed in University College, leading to the degrees Bachelor of Liberal Studies and Bachelor of Professional Studies. Through a contract degree, a student in University College may construct a Coordinated Study which meets individual career goals. A minor in Women's Studies is also open to students majoring in a traditional discipline or interdisciplinary field in one of the other undergraduate colleges.

WOMEN'S STUDIES

The *Coordinated Study*: Upon admission to University College a student will design a degree contract with the aid of a faculty advisory committee. Advising guidelines are available from University College.

The *Minor*: 18 semester hours, including 9 hours from core courses and 9 hours to be selected from the list given below.

A. Core Courses

UNIV 3700	Women in American Society (or as previously listed, UNIV 3502)	(6)
HIST 4851	History of Women in America	(3)

B. Additional Courses, Select 9 hours:

ENGL 4371	Feminist Consciousness in Western Literature	(3)
HILTH 4204	Women and Sexuality	(3)
HMEC 4201	Preparation for Marriage	(3)
PSYC 4503	Psychology of Women	(3)
PSYC 3105	Human Sexuality	(3)
SOCY 3422	Sex, Society, and Roles	(3)
SOCI 3831	Marriage and the Family	(3)
ECON 4910	Women and Work	(3)
UNIV 4380	Independent Study (1-3)	(3)

TOTAL —

THE SPECIAL PROJECT

The Special Project will be designed by the Contract/Advising Committee as a synthesizing activity, interdisciplinary in nature, by which the student demonstrates in a sustained manner comprehension and command of the complex skills and understanding encompassed in the degree program. The Special Project carries 9 semester hours credit.

Degree Requirements

Semester hours

LIBERAL STUDIES

UNIV 1010	Communication I	(6)
UNIV 1020	Communication II	(6)
UNIV 1030	Humanities	(6)
UNIV 1410	Social Science	(6)
UNIV 1610	Natural Science	(6)
UNIV 1810	Leisure and Recreation	(4)
MATH 1181 or PHIL 1101	(or another mathematics course at the same level or above)	(3)

For both BLS and BPS degrees:

37

THEMATIC STUDIESUNIV 3500-3599
(See note above)for the BPS degree:
for the BLS degree:

(6-9)

6-9
12-18

EVALUATION

INDIVIDUAL STUDIESincludes:
Coordinated Study Program,
upper division honors
UNV 4995 Special Projectfor the BPS degree:
for the BLS degree:

(30)

(9)
86
77

All members of the Contract/Advising Committee evaluate the student's performance, recognizing that each student enrolled in the University College must

meet all University credit-hour and QPA requirements. The following methods are used to evaluate a student's performance: the traditional grading systems, Pass/Fail and Credit/No Credit options supplemented by written narrative evaluations, credit or placement by examination, Advanced Placement examinations for degree credit where these are available, and credit for validated learning from experience or non-traditional instruction.



Independent Departments and Programs

JOHN R. DILL, B.S., M.A., Ph.D.
*Associate Vice President for Academic Affairs
 Room 319, Administration Building*

ACADEMIC PROGRAMS

Department	Major	Concentration Within Major	Degree Offered
Nursing	Nursing		Bachelor of Science in Nursing (B.S.N.)
Urban Studies	†Urban Studies		Bachelor of Arts (B.A.)
**International Studies	†Latin American Studies		Bachelor of Arts (B.A.)
	International Relations	(1) American Foreign Policy (2) Western Europe (3) Latin America (4) Asia (5) Soviet (6) Sub-Saharan Africa (7) Middle East and North Africa	Bachelor of Arts (B.A.)
	African Studies		Certificate

**See also the listing for the College of Business Administration
 †Collateral Major recommended.

Independent departments and programs are those which are not affiliated with a particular college in the University. The undergraduate independent departments or programs are Aerospace Studies (AFROTC), International Studies, Library Science, Military Science, Nursing, University Honors Program, and Urban Studies. Because they are not part of a particular college, there is no dean; therefore, the Associate Vice President for Academic Affairs performs the duties of a dean for these areas and for students enrolled in these programs.

INTERNATIONAL STUDIES

ASSOCIATE PROFESSOR
J. REX ENOCH, Director
Office of International Studies,
Old Brister Library, 130

The Office of International Studies coordinates and assists in the development of the University's teaching, research and service activities in the international field. Undergraduate interdisciplinary programs for which the Office of International Studies has coordinating responsibility are those in Latin American and African studies, international relations and international business. General descriptions of the programs follow below and detailed information on them may be obtained from the Office of International Studies and program advisors.

This office is responsible for the conduct of Memphis State sponsored overseas study and work programs. Current information on these programs and on many others open to Memphis State students is available for reference in this office, and students will be assisted in selecting programs which will best serve their educational needs. Participation in study-and-work-abroad programs is not limited to those enrolled in the international studies programs, but is open to all qualified persons.

The Office of International Studies is also prepared to assist students who are interested in participating in overseas exchange programs sponsored by governmental and private organizations. Advanced graduate students engaged in foreign area and international research and study may obtain information about grant opportunities that may be available to them. In cooperation with the Office of Sponsored Programs, the Office of International Studies will give advice and assistance to those interested in applying for financial aid from non-University sources.

The office has responsibilities in a broad range of other international programs in which the University is currently engaged or is prepared to engage. Among these activities are the following: development and administration of interinstitutional consortia in the fields of international studies and programs, including overseas development and technical assistance; the offering of non-credit

courses, orientation seminars and training programs for businesses and other organizations with international interests; maintenance of a "talent bank" file on University personnel possessing language skills and foreign area expertise; sponsorship of lectures and seminars on international topics of interest to the University and non-University communities; and dissemination of information about international programs of the University.

INTERNATIONAL STUDIES

AFRICAN STUDIES

Memphis State University's interdisciplinary program in African Studies, coordinated by the University's Office of International Studies, is open to students majoring in another interdisciplinary field or in a traditional discipline in any of the undergraduate colleges. Those who successfully complete the program will be awarded the Certificate in African Studies. The student's record will reflect the award of this certificate.

The African Studies certificate program is designed to serve the needs of students seeking a general education that emphasizes knowledge of this important world area, those who plan to teach in the elementary or secondary schools, and those who plan to do graduate work in an African or Afro-American field.

The candidate for the Certificate in African Studies will take courses in the fields of African anthropology, geography, history, and politics. There are no special language requirements for the program, but students planning to do graduate work in the field are urged to acquire a working knowledge of French or Portuguese. All students enrolled in the certificate program are encouraged to take advantage of opportunities for study or travel in Africa. Admission to the program is by consent of the African Studies advisor. The advisor will assist the student in planning his program in accordance with the requirements and his special interests. Requirements are listed below. The African Studies advisor is Dalmvin M. Coger, Department of History.

AFRICAN STUDIES

The Certificate, 21 semester hours from the following courses: INST 3242, 3342; HIST 4281, 4282, 4283; POLS 2309; INTL 4301, 4302. At least one course must be taken within each of the three departmental areas (anthropology, history, and political science), and the interdisciplinary sequence course, INST 4301-4302, is required of all candidates for the Certificate in African Studies.

INTERNATIONAL BUSINESS

A program leading to the degree of Bachelor of Business Administration with a major in International Business is offered with the College of Business Administration. Several departments of the College of Arts and Sciences participate in the program. The International Business advisor is John J. Reid, Department of Economics. For a description of the program and degree requirements, see the program descriptions for the College of Business Administration earlier in this section.

INTERNATIONAL RELATIONS

The International Relations program provides the opportunity to bring the knowledge of several traditional disciplines to bear upon a focal point of human relationships and problems which cross national and cultural boundaries. The program is designed to serve the student who seeks knowledge of the range of contemporary and possible future problems which confront international society and understanding of alternative national and cultural perspectives on solutions to those problems. The program also serves the needs of students planning a career in the Foreign Service or related agencies of the federal government and students preparing for employment abroad in the private sector, or in international organizations, private or public.

International Relations is offered as a major only. The program emphasis is on the course work in history, political science, economics, and geography, with contributions from other social science disciplines. Within the program the student is required to concentrate a part of his work in the field of American foreign policy or in one of six areas of the world. Students are encouraged to pursue the study of a foreign language and to seek opportunities for travel and study abroad. The student's program should be planned in consultation with the International Relations advisor. Course requirements are listed below. The International Relations advisor is J. Rex Enoch, Director of International Studies.

INTERNATIONAL RELATIONS

This program requires 36 semester hours including ECON 3510, 4340, 4350 and / or 16 hours of economics; POLS 2501, 4501, 4505, and 3505; INTL 4601; and three courses, in at least two disciplines, from one of the following areas of concentration:

- (a) *American Foreign Policy:* ECON 3510; GEOG 4421; HIST 4281, 4282, 4283; POLS 2301, 3506, 4506; either POLS 3505 or 4504.
- (b) *Western Europe:* GEOG 4304; HIST 3200, 3506, 4145, 4461; POLS 3302, 4507.
- (c) *Latin America:* ANTH 3232, 3390 or SOCY 3930; GEOG 4324, 4325; Hist 3212, 4240, 4250; POLS 3306, 4306.
- (d) *Asia:* GEOG 4306; HIST 3291, 4292, 4294, 4295; POLS 3307, 4307.
- (e) *Soviet Union:* GEOG 4305; HIST 4162, 4163; POLS 4305, 4502, 4505.
- (f) *Sub-Saharan Africa:* ANTH 3242, 3342; HIST 4281, 4283.
- (g) *Middle East and North Africa:* HIST 4282, 3271; POLS 3306.

NOTE: The student electing the major in International Relations is advised to take the following courses to insure that he has an adequate background for the required courses in the major: ECON 1010, 2110; GEOG 2301, 2311; HIST 1301, 1302; INTL 1101, 1102.

LATIN AMERICAN STUDIES

The Latin American Studies program offers an interdisciplinary approach to the study of Spanish or Portuguese America. It is designed primarily to serve the needs of students who are planning a career in Latin America or who will work with public or private institutions in capacities that require a broadly based knowledge and understanding of Latin America. It is also structured to meet the needs of students who wish to prepare for graduate study in programs permitting a Latin American concentration, either within a traditional discipline or in an advanced interdisciplinary program.

This program is centered on the Spanish and Portuguese languages and Latin American geography, history, literature, and politics. Appropriate courses in anthropology, art, economics, and sociology are also included in the program.

The student may elect Latin American studies as a major or minor. It is strongly recommended, but not required, that the student electing to major in this interdisciplinary field satisfy requirements for a collateral major in one of the traditional disciplines represented in the program. The student is advised that proficiency in spoken Spanish or Portuguese is very desirable for those contemplating a career in Latin America and to participate in Memphis State University study-abroad programs in that area. The student's program should be planned in consultation with the Latin American Studies advisor. Course requirements are listed below. The Latin American advisor is John A. Sobol, Department of Geography.

LATIN AMERICAN STUDIES

The Major: 24 semester hours, including 21 hours from the group of core courses and 3 hours from the group of electives listed below:

- (a) Core Courses: GEOG 4324, 4325; HIST 3211, 3212; INTL 4201; POLS 3306; SPAN 3511 or 3512.
- (b) Electives: ANTH 3200, 3235; ART 4162, 4163; ECOM 3880; HIST 3200, 4240, 4250; POLS 4306, 4503; SOCY 3930; SPAN 4561, 4562.

NOTE: The student must have a reading knowledge of Spanish (to the proficiency level expected upon completion of the second year college course) to satisfy the requirement for the major. It is recommended that he obtain a collateral major in one of the traditional disciplines represented in the program.

The Minor: 12 semester hours, including GEOG 4324 or 4325; HIST 3211, 3212; POLS 3306.

NOTE: The foreign language requirement for the minor is the same as for the major.

LIBRARY SCIENCE

PROFESSOR EVELYN G. CLEMENT,
Chairman
Room 101, John Willard Brister Library

The Department of Library Science offers no major in Library Service. For certification in Library Service, a student must complete requirements for endorsement in elementary education or a major endorsement in secondary education, in addition to completing LIBS 4111, 4121, 4131, 4232, 4331, 4401; CIED 4301.

For non-certification, a student whose major is in another college of the University will meet requirements for a minor in Library Service by completing the courses listed above.

NURSING

PROFESSOR BONNIE W. DULDT,
Chairman
Room 316, Manning Hall

Purposes

The function of the Department of Nursing is to provide a broadly based education necessary for the first profes-

sional degree in nursing. A significant characteristic of the department is that it provides a unique educational opportunity for Registered Nurses having associate degrees or diplomas in nursing to broaden their career opportunities and goals. The program developed in response to educational needs for professional and personal growth voiced by the nursing community in the West Tennessee area. While the educational program concentrates on nursing, it also provides a broad educational base. Over fifty-five percent of the course work is taken in academic disciplines such as the natural and physical sciences, the humanities, and the social sciences.

The faculty of the department represent all major areas of nursing practice and a variety of experience and interests. They reflect this diversity in their teaching practice and research, and thus are well qualified, in addition to academic credentials, to function as facilitators for students preparing as professionals. At this professional level, the nurses' role is defined as providing within the health care system a comprehensive service of assessing, promoting, and maintaining health of individuals and groups. They practice in a variety of settings, hospitals, service agencies, and the community. Comprehensive health care is emphasized. Memphis and the surrounding area offer a wide variety of services and facilities in health care which serve to enrich the clinical aspects of the program.

The faculty are united in their perception of the human being as having intrinsic worth and dignity. The faculty believe clients of nursing and health care are to be provided care in a humanistic manner characterized by the nurse's communicating and relating to clients in such a way that they feel accepted, important, understood, and heard. Registered Nurses who share this perception of people will find the climate at the Department of Nursing particularly attractive, whether the perception is based on moral, philosophical or religious beliefs.

This humanistic manner of communicating is also reflected in the teacher-student relationships. The teaching strategies used are designed to recognize the capabilities and characteristics of adult learners. Students as learners are perceived as responsible people growing and changing, having inherent intrinsic worth. Complete statements of the philosophy, conceptual framework, and objectives are available from the Department of Nursing.

Organization

The department functions as a whole, without division into specific areas of clinical nursing. Nursing courses are offered only at the upper division level. Students are advised to complete all lower division required courses before attempting upper division clinical nursing courses.

Admission

Requirements for admission to the Department of Nursing are the same as those for the University as a whole; see section 2, Admission to the University. Upon admission to the University and declaration of Nursing as one's major, applicants seek academic advisement at the Department of Nursing Office. Transcript evaluation of transfer credits is made on request of the student at the University Admissions Office.

Requirements for the baccalaureate program in nursing are as follows:

1. Graduation from an accredited associate degree or diploma program in nursing.
2. Current licensure as a Registered Nurse in Tennessee.
3. A cumulative grade point average of 2.0 or higher.
4. Completion of prerequisite lower division courses is mandatory before entering the upper division clinical nursing courses.

Lower Division Requirements

English: ENG 1101, 1102 (with minimum grade of C) and two of the following: 2101, 2102, 2103, 2104, 2105, 2106.

History: HIST 2601, 2602.

Science: LBL 1731, 1732, 1400; CHEM 1051, 1052 (with minimum grade of C and within the last 15 years or current validation by testing).

Physical Education: two semesters of activity courses.

Mathematics: MATH 1181 or above.

Nursing: 30-37 semester hours.

Humanities: 3 semester hours from art, foreign languages, music, philosophy, or theatre and communication arts.

Behavioral Sciences: 3 semester hours as follows: EDPS 2111, PSYC 1101, ANTH 1200 or SOCY 1111; developmental psychology or human growth and development are crucial to program and must show on transcript.

Regulations: If fifteen years has lapsed since credit was earned in Biology 1731 and 1732 (Anatomy and Physiology), Biology 1400 (Microbiology), and Chemistry 1051 and 1052 or Chemistry 1111 and 1112, the content is considered outdated, and students are required to repeat these courses or validate credits by examination. The NLN test results in Anatomy and Physiology, Chemistry and Microbiology are used to measure current knowledge in these fields. A score of the fifty percentile or higher is required; this represents the equivalent of the upper half of contemporary classes of basic students of nursing. See the Department Policy Manual for additional regulations regarding validation of nursing knowledge and skills, as well as other policies.

Residence Requirements

University residence requirements are explained in detail in Section 6, *Graduation from the University*. Note that students transferring from a community or junior college must complete a minimum of sixty semester hours in an accredited senior institution.

Degree Requirements

A total of 135 semester hours of credit is required for the Bachelor of Science in

Nursing degree. A minimum cumulative quality point average of 2.0 is also required. In addition the lower division prerequisites required for admission to the program, the following requirements must be met for graduation:

Nursing: NURS 3000, 3002, 3101, 3102, 3200, 4000, 4100, 4200.

Research/Statistics: EDRS 4541, 4542.

Social Science Elective: 3 semester hours (any upper division course in International Studies, Sociology, Anthropology, Geography, History, Political Science, Economics, Criminal Justice, History, Philosophy, Journalism, or Communications)

Biology: BIOL 3440.

Elective: 3 semester hours (any upper division course).

Methods of earning credit other than enrollment in the courses include correspondence or extension credit and credit by examination. The University policies are explained in detail in Section 5, *Academic Regulations*.

The following represents a common curriculum plan for the junior and senior years:

JUNIOR YEAR

NURS 3000	(3)	*BIOL 3440	(3)
NURS 3002	(3)	NURS 3200	(6)
NURS 3101	(3)	*Social Science	
NURS 3102	(3)	ELECTIVE	(3)

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12

SENIOR YEAR

NURS 4000	(6)	NURS 4200	(6)
NURS 4100	(3)	EDRS 4542	(3)
*EDRS 4541		*ELECTIVE	(3)

12

12

*Students who prefer to attend part-time may complete these courses prior to entering the clinical nursing courses.

URBAN STUDIES

ASSOCIATE PROFESSOR MELVIN C. BARBER, *Coordinator*
Room 130, Old Brister Library

The Urban Studies Program is interdisciplinary in nature and deals with issues and problems in complex urban environments. The program focuses attention on "the city" — how it evolved, its structural and functional characteristics, and alternative directions for its growth. In addition to the development of a conceptual framework for the city, the courses in the Urban Studies Program stress participation in local research projects in the areas of housing, pollution, transportation, underemployment and urban life styles. An urban internship in a regional Mid-south public agency is both available and encouraged through the program.

The program's broad orientation and its attention to the causes and consequences of urban problems provides an

excellent background for urban careers in organizations such as community action agencies, urban social service agencies, health planning agencies, and local and county government.

The Urban Studies program is offered through the cooperation of the departments of Anthropology, Economics, Geography, History, Political Science, and Sociology and Social Work. The above departments as well as other participating departments such as Management, Civil Engineering, Criminal Justice, and Theatre and Communication Arts provide the Urban Studies student with the opportunity for personal faculty advising in his area of interest as well as involvement in the faculty member's ongoing research projects in the area.

The student may elect Urban Studies as a major or minor. It is recommended, but not required, that the students majoring in Urban Studies choose a collateral major in one of the traditional disciplines represented in the program. The requirements for the major are listed below.

The Urban Studies major leads to a B.A. degree which is awarded through the College of Arts and Sciences. Degree requirements for the B.A. are listed with the program descriptions for the College of Arts and Sciences earlier in this section. The student's program should be planned in consultation with the Urban Studies Coordinator.

URBN STUDIES

The Major: 33 semester hours (no more than 15 semester hours from any one department may apply toward the major) including:

1. Urban Studies majors must take the Urban Studies Seminar 4001 and at least one three hour course from the following list of social science methods courses: ANTH 3225, GEOG 4531, POLS 3100, or SOC 3322. A second methods course may be applied to the urban studies major if the student so desires.
2. Four courses from the following core: ANTH 4411, ECON 4511, GEOG 4431, HIST 4871, POLS 3224, SOC 4631.
3. Five courses from the following electives: ANTH 3210, ECON 3210, 3810, 3811, 4750, EDFD 4020, GEOG 3440, 3441, 3442, 4881, POLS 4221, 4224, 4225; SOC 3610, 4420, 4620; toward the Urban Studies electives.
4. Three hours of approved internships from the following course numbers:

The Minor: 18 semester hours including URBN 4001 and 5 others courses as listed above (in core or in elective sets).

AEROSPACE STUDIES

LT. COLONEL
JAMES C. KASPERBAUER,
Professor of Aerospace Studies
Room 404, Jones Hall

The Department of Aerospace Studies provides a four-year program of instruction for all qualified U.S. citizens, male and female, divided into two phases, each of two years duration. The first, termed the General Military Course, offers instruction in the foundation of leadership and Aerospace-age citizenship. The second, termed the Professional Officer Course, builds upon these foun-

dations in developing upperclassmen who are to become Air Force officers and serve on active duty upon graduation and commissioning. Students may apply for the two-year or four-year program, or they may enroll one year prior to applying for the two-year program.

Instruction in Aerospace Studies has been an important phase of the curriculum at Memphis State University since 1951. Active duty Air Force personnel, approved by the University President, are detailed by the Department of the Air Force to administer the instructional program. Air Force officers serve under appointment by the University as Professor or Assistant Professor of Aerospace Studies.

THE GENERAL MILITARY COURSE

The two-year (4 semesters) General Military Course consists of one hour a week of classroom instruction and one hour a week in Leadership Laboratory. Textbooks are furnished by the Air Force without charge. Air Force uniforms are furnished and must be properly worn and kept in good condition. A uniform deposit is required for all cadets at the time of registration. Cadets who successfully complete the General Military Course may apply for admission to the Professional Officer Course.

THE PROFESSIONAL OFFICER COURSE

The Professional Officer Course provides instruction and systematic training to selected eligible students who desire to qualify as officers in the United States Air Force while pursuing their academic studies at the University. Successful completion of the requirements for the Professional Officer Course and for a baccalaureate degree leads to a commission in the United States Air Force as a Second Lieutenant. To be eligible for selection to the Professional Officer Course, a student must have at least two years remaining at the University (undergraduate, graduate, or a combination). Final selection is based on academic standing, leadership potential, percentile score on the Air Force Officer Qualifying Test, and physical qualifications. Senior male cadets who are enrolled in the pilot category will engage in a flying program consisting of 25 hours of flight instruction and 3 semester hours of Elementary Aeronautics (ROTC 4413). All members of the Professional Officer Course receive a subsistence allowance of \$100.00 per month and are issued uniforms provided by the Air Force.

THE TWO-YEAR PROGRAM

All students who meet qualifying criteria, may apply for selection to the Professional Officer Course under the Two-Year Program if they are not in the Four-Year Program. Processing of applications for the Professional Officer Course begins in the Fall of each year. Application may be submitted through May 31. If selected, the student will attend a six-week field

training program during the summer prior to entry into the Professional Officer Course. Graduates of the six-week field training are enrolled in the Professional Officer Course with the same status as cadets in the four-year program.

LEADERSHIP LABORATORY

This lab is designed around a microcosm of the U.S. Air Force. It gives the cadets the opportunity to develop their leadership potential while allowing the staff to make evaluations based on actual managerial situations.

AIR FORCE ROTC COLLEGE SCHOLARSHIP PROGRAM

Full scholarships which pay full tuition and fees, full book allowance, transportation to Memphis, and a tax free subsistence allowance of \$100.00 per month are available to entering freshmen and University students who are competitive academically and will enroll in the Air Force ROTC program. Details concerning qualifications and applications can be obtained from the Department of Aerospace Studies (See Chapter 4, Scholarships). NOTE: Several loan funds are also available to students enrolled in AFROTC. For more information, contact the department staff.

AFROTC students who accept a scholarship must agree to successfully complete at least one semester of college instruction in a major Indo-European or Asian language prior to commissioning. A major Indo-European or Asian language is one defined as such by the academic institution's foreign language department. Cadets may meet the foreign language requirement by completing a course or by demonstrating proficiency.

FIELD TRAINING

Four-year cadets enrolled in the Professional Officer Course will attend a four-weeks field training program at an Air Force Base during the summer between their sophomore and junior years. Cadets who register for ROTC 3211 (Four-Week Field Training), prior to attending field training, will receive an academic grade with four hours academic credit. Students applying for the Professional Officer Course Two-Year Program will attend a six-weeks field training program at an Air Force Base prior to entering the Professional Officer Course as a cadet. Students who register for ROTC 3212 (Six-Weeks Field Training), prior to attending field training, will receive an academic grade and six hours academic credit.

MINOR IN AEROSPACE STUDIES

Upon successful completion of 18 semester hours in Aerospace Studies, with a minimum grade of C, a cadet may apply for a minor in Aerospace Studies.

SPECIAL STUDENT PROGRAM

This is available to all students who have not previously enrolled in an ROTC

course in the University. AFROTC scholarship recipients are not eligible. This program applies to a student's first semester in any GMC course. The special student does not pay the uniform deposit, does not have to meet strict Air Force hair standards, does not wear the uniform. Full credit is received for the course.

SUPPLEMENTAL COURSES PROGRAM

The AFROTC Supplemental Courses Program (SCP) exists to enhance the career utility and officer performance of persons commissioned through AFROTC. The program consists of required and recommended college/university-taught courses. All contract cadets must successfully complete the required supplemental courses in addition to all Aerospace Studies courses.

General Military Course (GMC): Contract cadets must successfully complete a course in English composition. Additionally, they should be encouraged to take a course in speech. Four-year scholarship cadets must satisfactorily complete the English composition course by the end of the GMC. GMC cadets receiving scholarships of less than four years duration will have two academic years to complete the English composition course. Failure to satisfactorily complete the required supplemental course in the specified period of time will result in termination of scholarship entitlements.

Non-scholarship four-year GMC cadets, two-year program applicants, and persons not required to complete the GMC need not take the GMC supplemental courses prior to POC entry. However, successful completion of GMC supplemental courses may enhance their chances for POC selection.

Professional Officer Course (POC): cadets must successfully complete a course in mathematical reasoning prior to commissioning. Ideally, this course should include the acquisition of a specific skill, for example, statistics, computer science, calculus, etc.

UNIVERSITY HONORS PROGRAM

PROFESSOR JOSEPH R. RILEY,
Director

Room 130, Old Brister Library

What the Honors Program Is

The Honors Program has been created to provide exceptional educational opportunities for exceptionally able students. It is expressly intended to nurture the highly motivated, independent individual who seeks a stimulating environment appropriate to his unusual potential. The program offers a series of specially designed honors sections and courses, from which students may choose those courses which best suit their own interests and needs. In order to graduate with honors, a student must complete

successfully a minimum of 18 semester hours of honors work, at least 12 hours of which must be upper-division (junior and senior level). Depending upon which honors track is chosen, a student who completes the Honors Program can be graduated with department, college, and/or University honors. For example, a student might graduate "with honors in English (or economics, or psychology, etc.)," "with honors in Education," "with University honors," or with combinations of these.

The University Honors Program is governed by the Honors Council, a committee composed of the Director of the Honors Program, the Assistant Director of the Honors Program, six faculty members chosen by the Academic Senate, and two honors students elected by the Honors Students Association. The Program is housed in Old Brister Library, Rooms 128-130, where the office of the Director is located, as well as a seminar-conference room and an honors lounge, open to all students who are active in the Honors Program.

Admission to the Program

Incoming freshmen who score at least 26 on the ACT, or its equivalent on other tests, are invited to participate. Transfer students or students previously enrolled at Memphis State University are eligible for the program if they have an overall grade point average of 3.0 for freshmen and sophomores and of 3.25 for upper-division students. Those who do not qualify in one of these ways will be considered upon direct application or receipt by the Director of a recommendation from high school or college faculty.

Curriculum and Requirements

Description of a typical honors plan is as follows:

Lower Division: Honors students at this level take specially designated sections of freshman and sophomore courses offered by departments throughout the University. Enrollment is limited to fifteen honors students, and these sections are taught by specially selected honors faculty. Normally an honors student will take one honors class each semester during the first two years, but he may take more (there is no maximum). However, at least 6 hours of lower-division honors credit are required for admittance to advanced-level honors courses.

Upper Division: After the basic courses in honors have been completed, honors participants must opt for honors at the department, college or University level. Regardless of the individual's choice to pursue department or college honors (and regardless also of the availability of such programs in his chosen field), he may continue toward graduation with University honors. This plan consists at the upper division of four honors courses in which students from across the University may participate. Topics are interdis-

ciplinary in nature and vary from semester to semester. An honors thesis or project may be substituted for one of these courses. Descriptions of college and departmental programs are available in the appropriate college or department, or in the office of the University Honors Program.

Requirements and Standards

During the freshman and sophomore years the honors participant must maintain an overall QPA of at least 3.0 to remain in good standing in the program; the minimum QPA for continuing at the junior and senior levels is 3.25. There is provision for a one-semester probationary period before a participant is discontinued. A minimum grade of B is required in each honors course in order for it to count toward fulfilling the honors course requirement, but regular credit for the course will be earned if the grade is lower than a B.

MILITARY SCIENCE

CAPTAIN DANE L. WOYTEK,
Professor of Military Science

Room 117, Health Center

The Department of Military Science is responsible for administering the Army Reserve Officer Training Corps (ROTC) program on campus. The curriculum is designed to provide college men and women with practical experience in the art of organizing, motivating, and leading others while completing their studies for a baccalaureate degree.

The Army ROTC Program is designed to complement the student's college work by providing meaningful educational experiences while leading to a commission as a 2/LT in the active Army, the Army Reserve or the Army National Guard. All ROTC courses are designed to maximize self awareness and build confidence while providing valuable leadership training and practical experience.

MILITARY SCIENCE BASIC COURSE

Basic Course (MS I and MS II) is an introductory phase for freshmen and sophomore students consisting of elective courses designed to combine the elements of basic military science with areas of general student interest. Courses count as elective credit toward the total university required hours for a degree. There is NO MILITARY OBLIGA-

TION for enrolling in any of the basic level courses. Participation in the military leadership laboratory is voluntary except for ROTC Scholarship students. Equipment and texts required in these courses are furnished at no cost to the students. Activity physical education credits are granted for all introductory level courses.

MILITARY SCIENCE ADVANCED COURSES

The Advanced Course comprises the last two years of college ROTC (MS III and MS IV) instruction. For selected students, the curriculum of the advanced course consists of military methods of instruction, leadership and exercise of command, map reading and land navigation, small unit tactics, communications, branches of the army, military law, logistics and orientation in preparation for military service as an officer. Practical leadership is provided by assigning students as Cadet Officers and Noncommissioned Officers in the Corps of Cadets. The Advanced Course also requires attendance at an advanced camp (leadership practicum) lasting six weeks during the summer following completion of MS III.

ENROLLMENT AND CONTINUANCE REQUIREMENT

The general requirements for enrollment and continuance in the Army ROTC Program are:

1. Basic Course:
 - a. Be a citizen of the United States.
 - b. Be acceptable by the University as a regularly enrolled student.
 - c. Not be a conscientious objector.
2. Advanced Course: All cadets selected for enrollment in the advanced course of Army ROTC must:
 - a. Have successfully completed six semester hours of Military Science including ARMY 1110 and ARMY 2110 or have been granted credit for the same.
 - b. Execute a written agreement (with consent of parent or guardian if a minor) with the government to complete the advanced course; to attend the advanced summer camp at the time and place specified; and to accept a commission if offered.
 - c. Be able to qualify for appointment as a second lieutenant by completing or receiving credit for four years of ROTC prior to reaching 28 years of age.
 - d. Complete the following upper division military science courses: ARMY 3110, 3120, 4110, 4120.
 - e. Be selected for enrollment by the Professor of Military Science and the President of Memphis State University or their authorized representative, after completing such general survey or screening tests as may be prescribed.
3. The two year advanced course program is offered to junior college graduates or students who were unable to attend the basic ROTC course during their first two years of enrollment. Applicants must successfully complete a six week basic camp prior to entering the advanced course.
4. Students with prior ROTC training, either high school or college, and students with prior active

military service may qualify for advanced standing upon approval of the Professor of Military Science (PMSC).

FINANCIAL BENEFITS AND ARMY ROTC SCHOLARSHIPS

All cadets enrolled in the Army ROTC program are furnished the necessary tests, equipment, and uniforms (advanced course only) by the government through the military property officer at Memphis State University.

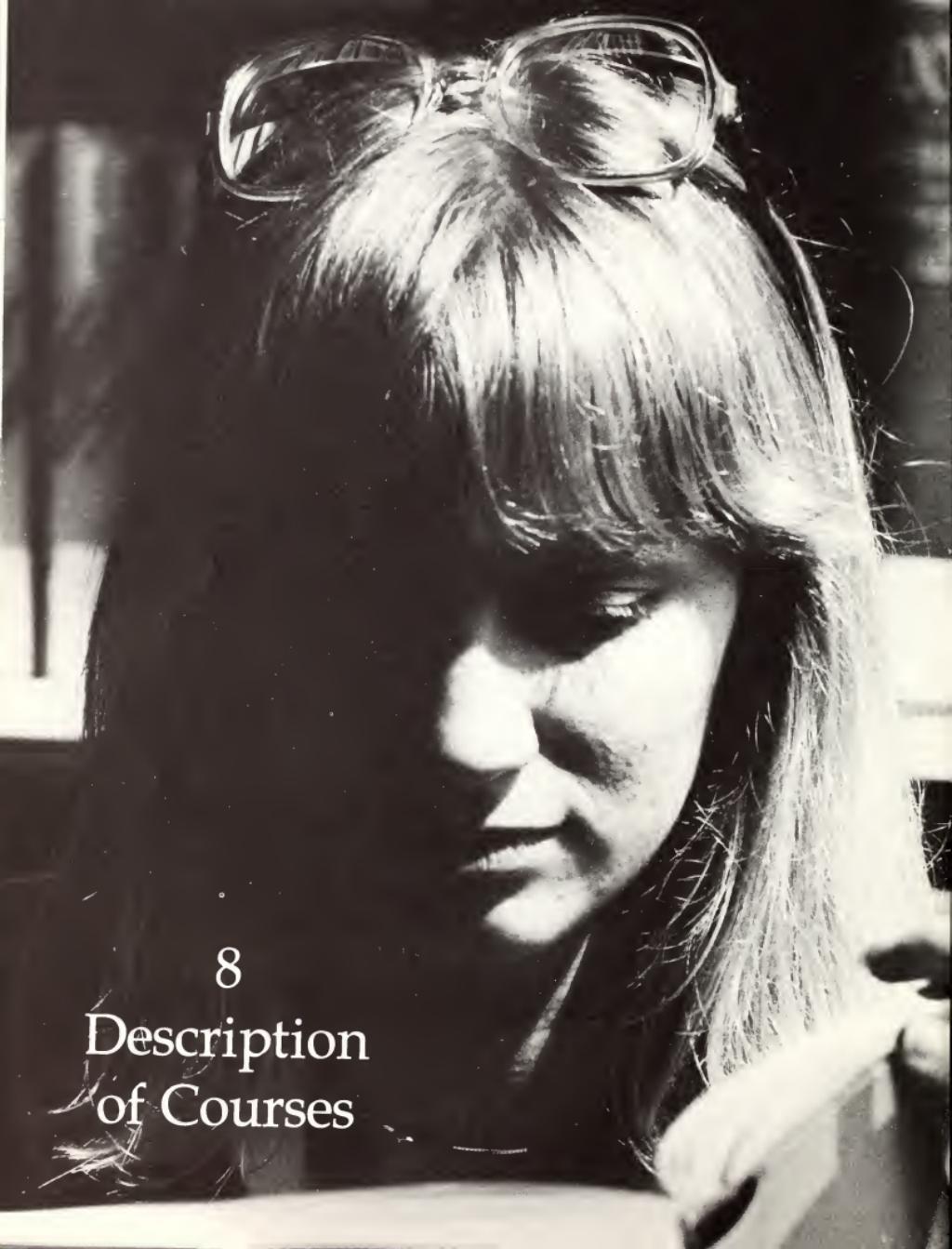
In addition to being furnished the above items, students enrolled in the advanced ROTC course receive a tax free subsistence allowance of \$100.00 per month for not more than ten months each school year for two years. While attending either the basic or advanced summer camps, each cadet receives pay at the rate of one half the pay of a Second Lieutenant. In addition, rations and quarters are furnished during the period of summer camps. All cadets attending summer camp are eligible for servicemen's group life insurance coverage in the amount of \$35,000. Mileage to and from summer camp is paid by the government.

Scholarships which pay full tuition and fees, full book allowance, and a tax free subsistence allowance of \$100.00 per month are available to university students who are competitive academically and will enroll in the Army ROTC program. Details concerning qualifications can be obtained from the Department of Military Science.

SPONSORED ACTIVITIES

The Department of Military Science sponsors the following activities:

1. The Army ROTC Rifle Team—Members are selected to represent Memphis State University Army ROTC in small - bore rifle competition with ROTC teams of other colleges and universities. The team is open to individuals enrolled in any Military Science course.
2. Drill Team—Membership in the Drill Team is open to all students enrolled in any Military Science course. The team provides color guards at athletic events and drills competitively at drill meets.
3. M.S.U. Ranger Platoon—The Ranger Platoon is an adventure type unit under the direction of advanced course ROTC cadets and supervised by Military Science instructors. Membership is open to all students interested in developing skills associated with patrolling, mountaineering, survival training, and other similar activities.



8

Description of Courses

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The section which follows contains a listing of all departments in the University by the college in which they are located and a description of all course offerings. The official course title appears in bold-face type following the course number. The figures in parentheses after the description of a course denote the number of semester hours of credit for that course. If the credit is variable, to be fixed in consultation with the instructor, that fact is indicated by the minimum and maximum credit, as BIOL 4000 (2-4). If another course number in parenthesis follows the credit hours, it is the former number for the same course. Credit may not be received for both the former number and the current number of the same course.

Courses are numbered according to the following system:

- 1000-1999 Courses primarily for freshmen -
- 2000-2999 Courses primarily for sophomores
- 3000-3999 Courses primarily for juniors
- 4000-4999 Courses primarily for seniors and for which graduate credit is not offered. (There is sometimes a corresponding 6000 number for which graduate credit is offered to graduate students.)

Course numbers have no reference to the semester in which the courses are taught.

The numbers in brackets following the course descriptions represent the HEGIS taxonomy and mode of instruction.

The *Schedule of Classes* is published a few weeks prior to the opening of each semester and The Summer Session. It contains a listing of the specific courses to be offered, with the time, place, and instructor in charge of each section. It also contains special announcements concerning registration procedures and courses which may have been added since the publication of the *Bulletin*. Copies are available in the office of the Associate Dean of Admissions and Records (Records).

THE COLLEGE OF ARTS AND SCIENCES

ANTHROPOLOGY

PROFESSOR

THOMAS W. COLLINS, Chairman
Room 122, Clement Humanities Building

E010 ANTHROPOLOGY (ANTH)

1100. Man's Place in Nature. (3). Man's place in nature, human origins, fossil record from archaeological excavations, biological aspects of race. [2201-1]

1200. Man and Culture. (3). Origin and development of human culture, social relations, language, government, religion and ritual, and problems of developing nations or minority groups in modern world. [2201-1]

1300. Introduction to Archaeology. (3). Description of archaeological evidence for development of human culture from earliest beginnings to the present. [2203-1]

1400. Urban Anthropology of Contemporary America. (3). Anthropological interpretation of diverse and changing life patterns in American urban society. Attention to cross-cultural analysis of divergent settlement patterns, kinship networks and political, religious, and economic systems. [2201-1]

3030. Indians of Tennessee and Adjacent Areas. (3). Archaeology and ethnology of Southeast; intensive study of various Indian cultures of Tennessee and bordering states. [2202-3]

3111. Human Paleontology. (3). Fossil record starting with primitive developments; human evolution; human osteology. [2202-1]

3200. Peoples and Cultures of the World. (3). Same as **GE005** [2202-1]. Ethnographic areas and selected cultures of the world. [2202-1]

3225. Qualitative Methods of Field Research. (3). Various qualitative methods of anthropological research. Application in collecting life histories and writing ethnographic descriptions of contemporary societies. [2202-8]

3231. Ethnology of North America. (3). Description and distribution of marginal culture types of North America north of Mexico; comparisons and interrelationships during pre- and post-contact periods. [0303-1]

3232. Ethnology of Latin America. (3). Description and distribution of peoples and cultures of South America and Mesoamerica; comparisons and interrelationships during pre- and post-contact periods. [0303-1]

3242. Ethnology of Africa. (3). Description and distribution of peoples and cultures of Africa; comparisons and interrelationships during pre- and post-contact periods. [0305-1]

3272. Ethnology of Oceania. (3). Description of peoples and cultures of Oceania (including Australia); comparisons and inter-relationships during pre- and post-contact periods. [0303-1]

3221. Archaeological Field Techniques I. (3). Experience in field excavations; preparation of specimens, use of survey instruments, photographing and keeping archaeological records, map making of small ground areas. Hours individually arranged. PRE-REQUISITE: permission of instructor. [2203-8]

3222. Archaeological Field Techniques II. (3). Continuation of technique 3221. PRE-REQUISITE: permission of instructor. [2203-8]

3331. Archaeology of North America. (3). Description and distribution of prehistoric cultural remains in North America north of Mexico. Major regional sequences, extending from the earliest evidences of human occupation until historic times. [2203-1]

3332. Archaeology of Latin America. (3). Description and distribution of prehistoric cultural remains in South America and Mesoamerica, with emphasis on Mexico and Peru. [2203-1]

3342. Archaeology of Africa. (3). Description and distribution of prehistoric cultural remains in Africa; major regional sequences, extending from earliest evidences of human occupation until historic times. Emphasis on cultural achievements of pre-colonial Africa. [2203-1]

3352. Archaeology of Asia. (3). Description and distribution of prehistoric cultural remains in Asia; major regional sequences, from earliest evidences of human occupation until historic times. [2203-1]

3422. Social and Ethnic Minorities. (3). Same as **SOC1 3422**. Social and ethnic minorities in United States and elsewhere; focus on differences in cultural backgrounds, social relations with larger society; social, educational, and legal problems of minorities; comparative, historical and unsatisfactory adjustments of minorities. [2202-1]

3611. Linguistic Anthropology. (3). Nature and usefulness of symbols, mechanisms by which they are communicated, relation of symbolic systems to thought and culture; comparative methods used to reconstruct prehistoric languages. [2202-1]

3711. Cultural Development and the Growth of Technology. (3). Anthropological survey of development of technology and its impact on organization of industry and work from prehistoric through post-industrial societies. Consideration of such current issues as public control of technology, labor market

segmentation, and quality of working life, in context of comparative analysis of both pre-industrial and industrial societies. [2202-1]

3930. Mexican Society and Culture. (3). (Same as **EDDF 4051**). Advanced study of cultural transmission process with emphasis on identifying learning behaviors, cognitive learning, and social learning; values, ethics, group norms; American society and selected world countries. Encounters of U.S. subcultural groups with public education system. PREREQUISITE: permission of instructor. [2214-1]

4051-6051. Anthropology and Education. (3). (Same as **EDDF 4051**). Advanced study of cultural transmission process with emphasis on identifying learning behaviors, cognitive learning, and social learning; values, ethics, group norms; American society and selected world countries. Encounters of U.S. subcultural groups with public education system. PREREQUISITE: permission of instructor. [2214-1]

4065-6065. Contemporary Anthropological Theory. (3). Contemporary growth of theories and methods in anthropology. [2202-1]

4111-6111. Human Adaptations. (3). Human populations and their variability; examination of human adaptations in locomotion and manipulation, facial structure, brain, and language, and reproduction; comparisons to anatomy, physiology, and behavior of other primates. [2202-1]

4254-5254. Economic Anthropology. (3). Comparative analysis of economic systems and their functional relationships to other cultural institutions; production, distribution, and consumption; concepts of wealth, value, property, and ownership. [2202-1]

4254-5254. Ethnography of Religion. (3). Comparative analysis of religious systems and their functional relationships to other cultural institutions; inter-relations of myth, magic, and ritual; types of religious institutions and religious practitioners. [2202-1]

4254-5254. Cultural Change. (3). Internal and external factors of cultural change; role of various change agents; cultural changes associated with urbanization, industrialization and modernization; theories of cultural evolution. [2202-1]

4311-6311. Archaeological Theory and Method. (3). History of archaeology and development of conceptual framework for archaeological data collection and interpretation; current theories and methods including the use of allied specialists. [2202-1]

4321-6321. Archaeological Field Control. (3). Methods of dealing with archaeological field problems; individual instruction; collection, recording, and analysis of data of both historic and prehistoric archaeological data. [2203-1]

4325-6325. Archaeological Field Techniques and Restoration. (3). Individual instruction in dealing with archaeological field problems and methods of modern conservation and restoration techniques. PREREQUISITE: permission of the instructor. [2202-1]

4351-6351. Evolution of Civilization. (3). Comparative investigation of origins of civilization in Old and New Worlds. Development and study of models to explain cultural, social, political, and other changes that lead to and define civilization. [2202-1]

4354-6354. Archaeology of the Holy Land. (3). Survey of archaeological remains in Holy Land from Stone Age to early Christian Era. [2203-1]

4370-6370. Historic Archaeology. (3). Review of contributions of archaeologists to historical research. Methods and techniques of archaeologists as related to modified by excavations and other types of historical materials. Allied specialties unique to Historic Archaeology including documentary investigations and conservation and restoration of existing structures. [2203-1]

4380-6380. Museology. (3). Same as **ART 4380**. History and development of museums; mandate and variety of institutions; significant research facilities; historical and contemporary collections, and the educational roles of museums in contemporary society. [2209-1]

4381. Archaeological Laboratory and Research Techniques. (3-6). Conduct of an archaeological laboratory and research techniques, including processing, cataloguing, storage of specimens, and analysis of small body of archaeological data on individual basis. May be repeated for credit when topic varies. No more than 6 hours credit may be counted toward major requirements in anthropology. PREREQUISITE: permission of instructor. [2203-8]

001 GENERAL ARCHAEOLOGICAL LABORATORY
002 HUMAN OSTEOLOGY
003 CONSERVATION AND RESTORATION

4382-6382. Museum Operation. (3). Same as **ART 4382**. Basic aspects of museum organization, management, exhibit planning, collection, and maintenance of collections; and records. [2203-1]

4411-6411. Urban Anthropology. (3). Anthropological studies of pre-industrial and industrial cities. Urbanization, movements of social transformation and other processes of adjustment to urban life; urban slums, ethnic enclaves, and housing developments in cross-cultural perspective. Urban kinship and social organization. Urban community development; Urban research techniques. [2214-1]

4420-6420. American Folklore. (3). Selected genres of American folklore, including folk religion and belief, folk medicine, folksong and music, narrative and humor (jokes and riddles).

Comparisons to other cultures. Emphasis on role of folklore in maintenance of tradition, in social change, and in concept of culture. [2202-1]

4511-6511. Medical Anthropology. (3). Cross-cultural analysis of bio-behavioral components of infectious, nutritional, genetic, and psychiatric diseases. Individual and cultural reactions to medical care, professionals and health care delivery systems. [1299-1]

4521-6521. Folk Medicine in the U.S. (3). Medical alternatives to standard health care system. Concepts of illness associated with such practices as folk medicine, patients, family and community. Clinical applications of folk medicine and psychotherapy. Health professional's role in caring for persons with different perceptions of health and disease emphasized. [2202-1]

4541-6541. Nutritional Anthropology. (3). Human nutrition in cross-cultural perspective. Biochemical, medical, patients, family and community. Clinical applications of folk medicine and with cultural attitudes regarding nutritive and health values of foods. Diet aspects of acculturation and culture change. Medical applications of nutritional studies among nutritional emergencies. Exemplary case studies. [0424-17]

4751-6751. Culture and Personality. (3). Comparison of factors involved in analysis of personality as contrasted to culture; interaction of these factors; problems of studying personal cross-cultural differences. [2202-1]

4752-6752. Applied Anthropology. (3). Application of anthropological knowledge and techniques to contemporary problems in government, industry, public health, community development, and urbanization. [2202-1]

4795- Directed Individual Readings. (1-4). Intensive guided survey of original material and related literature on topics of personal interest to advanced students and accepted by staff. Compilation, synthesis, and evaluation of published data; preparation for students considering anthropology as a profession. PREREQUISITE: permission of chairman and designated staff. [2202-8]

4895. Directed Individual Research. (1-3). Intensive guided study of original data, in areas selected by advanced students and accepted by staff. Collection and/or processing of data in physical anthropology, ethnology, applied and urban anthropology, archaeology, and linguistics; description, classification, and synthesis. Preparation for students considering anthropology as a profession. PREREQUISITE: permission of chairman and designated staff. [2202-8]

4990. Special Topics in Anthropology. (3). Selected topics of current interest in areas of anthropology not otherwise included in regular courses. May be repeated for credit when topics vary. [2202-1]

001 NEIGHBORHOOD STUDIES IN MEMPHIS
002 EXPERIMENTAL ARCHAEOLOGY
003 INDUSTRIAL ANTHROPOLOGY

4995. Independent Study in Anthropology. (3). Investigation of contemporary issues in Anthropology; experience with application of anthropological principles in selected settings, e.g., in Great Smoky Mountains National Park, offered in sections dealing with different topics. [2202-8]

Graduate courses in Anthropology: For details of the graduate program see *The Bulletin of The Graduate School*.

BIOLOGY

PROFESSOR JAMES F. PAYNE, Chairman

2018, Life Science Building

ADVANCED PLACEMENT

Beginning freshmen who have completed an advanced biology course in high school may apply to the chairman of the Department of Biology to take the semester preceding enrollment, for advanced placement. A supplementary departmental test is required in most cases.

NOTE: All departmental majors and minors are advised to take BIOL 2000 before any upper division biology courses.

BIOLOGY (BIOL)

1001. Introduction to Biology. (3). Survey of biology; emphasis on the study of living organisms. Not acceptable for biology major or in related pre-professional curricula. Credit not allowed for both BIOL 1001 and 1600 Two lecture, two laboratory hours per week. [0401-1]

1002. Introduction to Biology. (3). Continuation of BIOL 1001 with emphasis on plant and animal life. Not acceptable for biology major or in related pre-professional curricula. Credit not allowed for both BIOL 1002 and 1200. Two lecture, two laboratory hours per week. [0401-1]

1200. General Plant Biology. (3). Survey of plant kingdom; distribution, structure, function, and life processes. Physiological and economic importance of selected forms. Three lecture, three laboratory hours per week. [0402-1]

1400. Microbiology. (4). To meet requirements of student nurses and majors in Department of Health, Physical Education, and Recreation. Three lecture, two laboratory hours per week. [0402-1]

3711. Cultural Development and the Growth of Technology. (3). Anthropological survey of development of technology and its impact on organization of industry and work from prehistoric through post-industrial societies. Consideration of such current issues as public control of technology, labor market

Biology

3600. General Animal Biology. (4). Survey of animal kingdom; taxonomic, relationship, morphology, physiology, and economic importance of selected forms. Three lecture, three laboratory hours per week. [041-1]

1631. Human Anatomy and Physiology. (4). Structure and function of human organism, primarily for majors in Department of Health, Physical Education, and Recreation. Two lecture, two laboratory hours per week. [0412-1]

1632. Human Anatomy and Physiology. (3). Continuation of MOL 1631, primarily for majors in Department of Health, Physical Education, and Recreation. Two lecture, two laboratory hours per week. PREREQUISITE: BIOL 1631 or equivalent. [0412-1]

1731. Anatomy and Physiology. (4). Detailed study of structure and functions of human organism. Three lecture, two laboratory hours per week. [041-1]

1732. Anatomy and Physiology. (4). Continuation of BIOL 1731. Three lecture, two laboratory hours per week. PREREQUISITE: BIOL 1731 or equivalent. [0412-1]

2000. Fundamentals of Biology. (3). Expansion and application of biological concepts introduced in BIOL 2000, 2000. Includes: structure, cell function, reproduction, genetics, evolution, and ecology. Both uniting and comparative in nature. Required of all majors in biology. PREREQUISITE: CHEM 112 or equivalent and BIOL 1600 or equivalent and CO-REQUISITE: CHEM 112 or equivalent. [041-1]

2001. Elements of Biology. (3). Basic concepts of animal and plant life. (For students in College of Education seeking certification in elementary education; will not satisfy science requirements for degrees in other colleges.) Two lecture, two laboratory hours per week. PREREQUISITE: BIOL 2000 or equivalent and CO-REQUISITE: CHEM 112 or equivalent. [041-1]

2002. Natural History and Bio-Conservation. (3). Emphasis on plants and animals in their environment, use of fieldwork in teaching elementary science, and study of ecological principles related to bio-conservation. (For students in College of Education seeking certification in elementary education; will not satisfy science requirements for degrees in other colleges.) Two lecture, two laboratory hours per week. PREREQUISITE: BIOL 2001. [0401-1]

223. General Entomology. (3). Major aspects of horticulture and insects on grain, horticultural plants, propagation, disease control, nutrition, pruning, soils and greenhouse management. Two lecture, two laboratory hours per week. PREREQUISITE: BIOL 1200 or equivalent or permission of instructor. [041-1]

2780. Human Radiation Biology. (4). Biological effects of various types of radiation on human body and considerations involved in exposure control. (Limited to students enrolled in reactor technician program in Center for Nuclear Studies). [041-1]

3030. Principles of Animal Physiology. (4). Basic concepts of animal function, including study of many invertebrate phyla and most classes of vertebrate organisms. Two lecture, four laboratory hours per week. PREREQUISITE: 8 hours of animal science equivalent and COREQUISTE: CHEM 3311. [0410-1]

3050. General Ecology. (4). Plant and animal communities in relation to their environment. Two lecture, four laboratory hours per week. [0420-1]

3070. Genetics. (4). Principles of heredity, including laboratory experiments and principles of genetics. Three lecture, three laboratory hours per week. [0422-1]

3071. Human Genetics. (3). Genetic principles as they apply to man, including pedigree analysis, genetic counseling, genetic engineering, and eugenics. Three lecture hours per week. PREREQUISITE: BIOL 1200, 1600, and 2000 or permission of instructor. [0401-1]

3100. History of Biology. (3). Development of science of biology, considering work of outstanding biologists and influence of their contributions. PREREQUISITE: 16 semester hours in biology or permission of instructor. [0401-1]

3170. Heredity. (3). Principles of heredity with applications to agriculture, medicine, and other fields. Three lecture, three laboratory hours per week. PREREQUISITE: one year of chemistry. [0422-1]

3200. Plant and Animal Anatomy. (4). Comparative development and structure of roots, stems, and leaves in flowering plants. Two lecture, four laboratory hours per week. [0412-1]

3221. Morphology of Lower Plants. (4). Comparative studies of general structure of lower plants through bryophytes. Two lecture, four laboratory hours per week.

3222. Morphology of Vascular Plants. (4). Comparative study of structure, function, and development of vascular plants and phylogeny of vascular plants from most primitive to most advanced; possible fossil ancestors and theories of origin of the angiosperms. Two lecture, four laboratory hours per week. [0412-1]

3240. Field Botany. (4). Introduction to collection, identification, and classification of woody and herbaceous plants in Memphis area; emphasis on field experience. Two lecture, four laboratory hours per week. [0402-1]

3400. The Relation of Microorganisms to Man. (3). Nature, structure, and function of microorganisms, and their beneficial, as they affect man. Topics include ecology, spread and transmission of diseases, immunity, microbiology of water, foods, and soil, non-science majors. Credit not allowed for both 3400 and 3401. PREREQUISITE: one year of biology major or minor. [041-1]

3440. Pathophysiology. (3). Effects of pathogenic organism upon human body and abnormalities in physiological processes occurring during disease. (Primarily for nursing students.) [041-1]

3500. General Microbiology. (5). Fundamentals of bacteriology. Three lecture, four laboratory hours per week. [0411-1]

3560. Applied Microbiology. (4). Introduction to microbiology of water, soil, air, food sewage, industrial processes, and pathogens. Two lecture, four laboratory hours per week. PREREQUISITE: BIOL 3500 or equivalent. [0411-1]

3600. Ornithology. (4). Habitats, migrations, nesting habits, and classification of birds. Field trips for recognition of more common local birds organized as needed. Two lecture, four laboratory hours per week. [041-1]

3610. Vertebrate Embryology. (4). Development of selected vertebrate embryos from the earliest egg cell. Two lecture, four laboratory hours per week. [0427-1]

3620. Comparative Anatomy of Vertebrates. (5). Origin, development, structure, and functions of organs and systems of selected forms of vertebrates. Two lecture, six laboratory hours per week. PREREQUISITE: BIOL 2000 or permission of instructor. [0412-1]

3700. Vertebrate Zoology. (4). Life histories, adaptations, ecology, distribution, behavior, and classification of vertebrates. Two lecture, four laboratory hours per week.

3720. Human Anatomy. (4). Normal function of human body. Three lecture, two laboratory hours per week. [0410-1]

3800. Parasitology. (4). Distribution, morphology, life history, economic importance, and control of some parasites of man and domestic animals. Protozoa through helminths. Two lecture, four laboratory hours per week. [0408-1]

3840. Invertebrate Zoology. (4). (480A). Major invertebrate groups, their structure, functions, morphology, embryology, and ecology of selected types. Two lecture, four laboratory hours per week. [0407-1]

3900. General Entomology. (4). Introduction to insects with emphasis on morphology, physiology, development, behavior, and ecology. Three lecture, three laboratory hours per week. [0421-1]

3940. Systematic Entomology. (4). Classification of insects, including major groups, their morphology, and ecology. Three lecture, two laboratory hours per week. PREREQUISITE: permission of instructor. [0407-1]

3960. Medical Entomology. (4). Distribution, morphology, life history, medical importance, and control of insects and other arthropods which serve as vectors for disease-producing organisms. Two lecture, four laboratory hours per week. PREREQUISITE: permission of instructor. [0407-1]

3965. Pest Control. (4). Recognition, life history, habits, and control of insect pests attacking stored grain, wood, fabrics, food products and animals. Includes some non-insect pests, such as birds, rodents, and snakes. Two lecture, four laboratory hours per week. PREREQUISITE: permission of instructor. [0421-1]

3980. General Microbiology. (4). Survey of microorganisms, their morphology, physiology, and metabolic processes. Two lecture, four laboratory hours per week. PREREQUISITE: permission of instructor. [0411-1]

4000. Problems in Biology. (2-4). Individual problems pursued by qualified students under supervision of member of biology faculty; emphasis on interest and proficiency in biological research. [0401-1]

4010-4011. General Toxicology. (4). Introductory study of the pharmacological actions of chemicals on biological mechanisms. Three lecture, two laboratory hours per week. PREREQUISITE: CHEM 3312 or consent of instructor. [0426-1]

4030. Cellular Fine Structure. (3). Ultrastructure of cells. How cells use energy to maintain homeostasis. Function of cells and organelles in plant and animal simplest. Liberal use of micrographs during lecture. Three lecture hours per week. PREREQUISITE: BIOL 2000 or permission of instructor. [0426-1]

4031-4033. Bioenergetics. (4). Diversity and unity of energetic systems in living systems. Emphasis on evolutionary relationships of specific cellular components to different modes of bioenergetics. Two lecture, four laboratory hours per week. PREREQUISITE: CHEM 3312.

4050-4052. Techniques in Ecology. (4). Field techniques of applied ecology covering practical training in forest, field, aquatic, and atmospheric sampling and analysis. Extended field trips. Two lecture, four laboratory hours per week. PREREQUISITE: consent of instructor. [0420-1]

4053-4054. Cell Biology. (4). Physical and chemical attributes of living cells. Two lecture, four laboratory hours per week. PREREQUISITE: 3070, 3700, or 3700A.

4060-4064. Microbiology of Foods. (4). Microorganisms in food and processed foods: origins, nature, and effects on foods, enumeration, and relation to health. Two lecture, four laboratory hours per week. PREREQUISITE: BIOL 3500 or consent of instructor. [0411-1]

4064-6054. Ethology. (4). Animal behavior with emphasis on learning, releases, communication, orientation, instinct, biological clocks, and evolution of behavior. Two lecture, four laboratory hours per week. [0499-1]

4062-6620. Vertebrate Histology. (4). Microscopic study of representative vertebrate organs and tissues. Two lecture, four laboratory hours per week. PREREQUISITE: BIOL 3610 or 3620 or permission of instructor. [0413-1]

4063-6630. General Endocrinology. (3). Anatomy and physiology of the organs of internal secretion; role of hormones in metabolism and development. PREREQUISITE: BIOL 3730.

4064-6640. Field Zoology. (4). Identification, life history, and habitat of the animals of this locality; birds and insects are omitted. Two lecture, four laboratory hours per week. [0407-1]

4064-6644. Ichthyology. (4). Collection, preservation, identification, life histories, management, general economic importance of fishes. Two lecture, four laboratory hours per week. [0499-1]

4065-6651. Field Techniques in Vertebrate Zoology. (4-6). Techniques in field study of vertebrates. Extended field studies outside local area. [0407-9]

4270-4273. Vertebrate Histology. (4). Nervous system of selected vertebrates. Three lecture, two laboratory hours per week. PREREQUISITE: consent of instructor. [0425-1]

4274-6740. Mammalogy. (4). Classification, distribution, life histories, economic importance, techniques of field study, methods of collection and preservation of mammals. Two lecture, four laboratory hours per week. PREREQUISITE: BIOL 3600 or 3700 or permission of instructor. [0499-1]

4274-6744. Herpetology. (4). Classification, distribution, life histories, techniques of collection and preservation, natural habitats of North American reptiles and amphibians. Two lecture, four laboratory hours per week. PREREQUISITE: BIOL 3600 or 3700 or permission of instructor. [0499-1]

4276-6760. Wildlife Ecology. (4). Distribution, identification, population analysis, game mapping techniques, and management of wildlife. Two lecture, four laboratory hours per week. PREREQUISITES: BIOL 3050 or 3700 or permission of instructor. [0420-1]

4270-6770. Mammalian Genetics. (4). Principles of heredity of mammals with primary emphasis on mice and humans. Three lecture, two laboratory hours per week. PREREQUISITE: BIOL 3070 or equivalent. [0422-1]

4231-6231. Plant Physiology. (4). Principles of physiology and their application to lower plant groups, exclusive of bacteria and related forms. Two lecture, four laboratory hours per week. PREREQUISITE: BIOL 2000 or its equivalent. [0407-1]

4232-6232. Plant Physiology. (4). Principles of physiology application to living organism, emphasis on higher plants. Two lecture, four laboratory hours per week. [0406-1]

4240-6240. Plant Taxonomy. (4). Principles of plant taxonomy, special attention to classification of selected vascular plant families. Lectures, laboratory hours, and field trips. PREREQUISITE: BIOL 3240 or permission of instructor. [0409-1]

4242. Woody Plants of the Mid-South. (3). Identification and classification of trees, shrubs and woody vines of Tennessee and adjacent Arkansas, western Kentucky, southeastern Missouri, and southern Mississippi. Emphasis on both native and cultivated woody species, including their identification in summer condition, but also woody plants in winter. One lecture, two laboratory hours per week. PREREQUISITES: BIOL 1200, 1600 or permission of the instructor. [0402-1]

4265-6250. Pest Ecology. (4). Developmental and behavioral aspects of pest insects. Regional silvicultural United States. Autecology of important species. Field trips. Three lecture, two laboratory hour per week. PREREQUISITE: BIOL 3050 or permission of instructor. [0420-1]

4270-6270. Microbiology. (4). Survey of microorganisms and their applications to medicine, industry, agriculture, and food processing. Two lecture, four laboratory hours per week. PREREQUISITES: BIOL 3500 and CHEM 3311. [0408-1]

4440-6440. Pathogenic Microbiology. (4). Survey primarily of pathogenic bacteria. They cause disease and methods used for identification of pathogenic bacteria. Two lecture, four laboratory hours per week. PREREQUISITE: BIOL 3500, with organic chemistry desirable. [0411-1]

4444-6444. Immunology. (4). In vitro and in vivo reactions of antigens and antibodies, hypersensitivities, blood groups and vaccines. Two lecture, four laboratory hours per week. PREREQUISITES: BIOL 3500 and CHEM 3311. [0408-1]

4460-6460. Sanitary Bacteriology. (4). Microorganisms in food and water, their control, methods of sterilization and disinfectants. Two lecture, four laboratory hours per week. PREREQUISITE: BIOL 3500 or consent of instructor. [0403-1]

4570-6470. Molecular Genetics. (4). Structure, functions and recombination of DNA, recombination, compatibility of DNA with genes, linkage, mendelian, genes, restriction, plasmid, code, protein synthesis, suppression, regulation of gene expression and genetic engineering. Basic for students without formal training in molecular genetics. Two lecture, four laboratory hours per week. PREREQUISITE: organic chemistry or consent of instructor. [0426-1]

4501. Virology. (3). Introductory study of viruses and methods for their cultivation, isolation and characterization. Three lecture hours per week. PREREQUISITE: BIOL 3500. [0499-1]

4560-6560. Microbiology of Foods. (4). Microorganisms in food and processed foods: origins, nature, and effects on foods, enumeration, and relation to health. Two lecture, four laboratory hours per week. PREREQUISITE: BIOL 3500 or consent of instructor. [0411-1]

4604-6604. Ethology. (4). Animal behavior with emphasis on learning, releases, communication, orientation, instinct, biological clocks, and evolution of behavior. Two lecture, four laboratory hours per week. [0499-1]

4620-6620. Vertebrate Histology. (4). Microscopic study of representative vertebrate organs and tissues. Two lecture, four laboratory hours per week. PREREQUISITE: BIOL 3610 or 3620 or permission of instructor. [0413-1]

4630-6630. General Endocrinology. (3). Anatomy and physiology of the organs of internal secretion; role of hormones in metabolism and development. PREREQUISITE: BIOL 3730.

4640-6640. Field Zoology. (4). Identification, life history, and habitat of the animals of this locality; birds and insects are omitted. Two lecture, four laboratory hours per week. [0407-1]

4644-6644. Ichthyology. (4). Collection, preservation, identification, life histories, management, general economic importance of fishes. Two lecture, four laboratory hours per week. [0499-1]

4651-6651. Field Techniques in Vertebrate Zoology. (4-6). Techniques in field study of vertebrates. Extended field studies outside local area. [0407-9]

4720-4723. Vertebrate Histology. (4). Nervous system of selected vertebrates. Three lecture, two laboratory hours per week. PREREQUISITE: consent of instructor. [0425-1]

4740-6740. Mammalogy. (4). Classification, distribution, life histories, economic importance, techniques of field study, methods of collection and preservation of mammals. Two lecture, four laboratory hours per week. PREREQUISITE: BIOL 3600 or 3700 or permission of instructor. [0499-1]

4744-6744. Herpetology. (4). Classification, distribution, life histories, techniques of collection and preservation, natural habitats of North American reptiles and amphibians. Two lecture, four laboratory hours per week. PREREQUISITES: BIOL 3600 or 3700 or permission of instructor. [0499-1]

4760-6760. Wildlife Ecology. (4). Distribution, identification, population analysis, game mapping techniques, and management of wildlife. Two lecture, four laboratory hours per week. PREREQUISITES: BIOL 3050 or 3700 or permission of instructor. [0420-1]

4770-6770. Mammalian Genetics. (4). Principles of heredity of mammals with primary emphasis on mice and humans. Three lecture, two laboratory hours per week. PREREQUISITE: BIOL 3070 or equivalent. [0422-1]

001. HETEROCYCLIC CHEMISTRY. (1-3).
 002. TERPENES AND STEROIDS. (1-3).
 003. ORGANOPHOSPHORUS CHEMISTRY. (1-3).
 004. PHYSICAL ORGANIC CHEMISTRY. (1-3).
 005. POLYMER CHEMISTRY. (1-3).
 4499. Special Topics In Physical Chemistry. (1-3). Topics of current interest to undergraduates pursuing B.S. degree. May be repeated for maximum of 6 semester hours credit. PREREQUISITE: CHEM 3412 and permission of instructor.

001. MOLECULAR SPECTROSCOPY. (1-3).
 002. QUANTUM CHEMISTRY. (1-3).
 003 CHEMICAL KINETICS. (1-3).
 004 CHEMICAL THERMODYNAMICS. (1-3).
 005. ELECTRON SPIN RESONANCE SPECTROSCOPY. (1-3).

4501-6501. **Biochemistry Laboratory.** (1). Investigation of physical and chemical properties of organic compounds of biological interest by common laboratory techniques. Assay of enzymes and enzyme kinetics stressed. Three laboratory hours per week. PREREQUISITES: CHEM 3302 or 3303 and 3312. PREREQUISITE OR COREQUISITE: CHEM 4511. (1-3). (014-14).
 4511-6511. **Biochemistry.** (3). Biochemical techniques, emphasis on fractionating biological samples and measuring metabolic activity. Three laboratory hours per week. PREREQUISITE: CHEM 4511. (014-14).
 4511-6511. **Biochemistry.** (3). Chemistry of amino acids and proteins related to their properties in biological systems. Enzymes, coenzymes and co-enzymes. Coenzymes and their functions. Chemistry of carbohydrates, lipids, and nucleotides. Three lecture hours per week. PREREQUISITE: CHEM 3312. COREQUISITE: CHEM 4501 recommended. (014-14).
 4512-6512. **Biochemistry.** (3). Continuation of CHEM 4511. Metabolism of carbohydrates, amino acids and nucleotides. Biochemistry of DNA and RNA, including their relationship to biosynthesis of proteins. Metabolic control. Three lecture hours per week. PREREQUISITE: CHEM 4511. (014-14).
 4599. Special Topics In Biochemistry. (1-3). Topics of current interest to undergraduates pursuing B.S. degree. May be repeated for maximum of 6 semester hours credit. PREREQUISITE: CHEM 4512 and permission of the instructor.

001. ENZYME KINETICS AND MECHANISMS. (1-3).
 002. DNA REPLICATION. (1-3).
 003. BIOCHEMISTRY OF DISEASE STATES. (1-3).
 004. MACROMOLECULAR STRUCTURE AND FUNCTION. (1-3).

4911-4911. **Chemical Literature and Seminar.** (1). Use of chemical literature, preparation of technical reports, and oral presentation of investigatory reports. One lecture hour per week. PREREQUISITE: permission of instructor.

4991. **Chemical Research.** (1). (See description under CHEM 4993.) (1905-8).

4992. **Chemical Research.** (2). (See description under CHEM 4993.) (1905-8).

4993. **Chemical Research.** (3). Introduction to basic research. Student collaborates with staff member on problem of mutual interest selected from fields of analytical, inorganic, organic, and physical chemistry, and biochemistry. Experience in effecting research techniques, critical reading of scientific literature, and preparation of scientific reports. To receive credit toward a major in these research courses. Three to nine laboratory hours per week. PREREQUISITE: CHEM 3312 and permission of instructor. Student expected to complete prospectus in consultation with a faculty sponsor before registering for this course. (1905-8).

PHYSICAL SCIENCE (PSCI)

1031. **Physical Science.** (3). Introductory course, emphasis on fundamental principles and concepts of physical science, two lecture, two laboratory hours per week. (1901-1).

1032. **Physical Science.** (3). Continuation of PSCI 1031. Two lecture, two laboratory hours per week. PREREQUISITE: PSCI 1031. (1901-1).

4505. **Glass Manipulation.** (2). Laboratory course in fundamentals of glass manipulation and construction and repair of apparatus. Six laboratory hours per week. PREREQUISITE: senior standing. (1905-1).

Graduate courses in Chemistry and Physical Science: For course descriptions and further details of the graduate program, see The Bulletin of the Graduate School.

COMPARATIVE LITERATURE

For information, contact the Department of English. Interested students should see the requirements for the major and minor for Comparative Literature.

E090 COMPARATIVE LITERATURE (COLI)

4400. **The Practice of Comparative Literature.** (3). Introduction to theory, methods, and objectives of comparative literature. Required of comparative literature majors and minors. (1503-1).

4791. **Studies in Comparative Literature.** (3). Selected authors, works, or literary problems. May be repeated for credit up to maximum of 6 hours. A maximum of 3 hours credit is accepted toward Comparative Literature major or minor. (1503-1).

CRIMINAL JUSTICE

ASSOCIATE PROFESSOR
 WILLIAM V. PELFREY,
 Chairman

Room 405, Mitchell Hall

E250 CRIMINAL JUSTICE (CJUS)

1100. **Introduction to Criminal Justice.** (3). Introduction to American criminal justice system, its three dimensions, its court and early English beginnings to present time. [2105-1]

2100. **Concepts and Issues in Criminal Justice.** (3). Topics emphasizing specific problems in criminal justice system. Focus on integration of police, courts, and corrections subsystems and their relationships to community. PREREQUISITE: CJUS 1100. [2105-1]

2200. **Street Law: A Course In Practical Law.** (3). Practical application of law to everyday problems. Legal processes and resources available to everyday citizens involved in criminal, domestic, environmental, and other law problems and their relationship in criminal justice context. [2105-1]

3128. **Research and Statistics in Criminal Justice.** (3). Statistical and non-statistical approaches employed in contemporary criminal justice; review and analysis of current findings.

3152. **Drug Addiction and Alcoholism.** (3). Cultural and medical aspects of use of alcohol and various other drugs; consideration of roles of law enforcement and corrections in these areas. [2105-1]

3226. **Police and Society.** (3). (0526). Comparative analysis of police procedures, organization, and functions of effective police organization. [2105-1]

3226. **Courts and Court Administration.** (3). Court operations including assignments and specialization of judges, document preparation and calendaring of cases; consideration of problems involving court personnel, funds and other property in court, and the record of prisoner's swearing in trial in criminal cases. [2105-1]

3426. **Corrections in America.** (3). Principles of organization and management in corrections administration. Concepts of organizational behavior and application to corrections; other problems in special areas of institutional management. PREREQUISITE: permission of instructor. [2105-1]

3510. **Law and Society.** (3). Law as system of control and as mechanism for resolution of conflict. Relationship of law to political, economic and social systems critically analyzed and evaluated. [2105-1]

3521. **Criminal Procedure I.** (3). (0526). General view of criminal justice system as to application of principles of U.S. Constitution, Bill of Rights, and Fourteenth Amendment. "Due process of law" in federal and state procedures and application to criminal justice. [2105-1]

3522. **Criminal Procedure II.** (3). Application of various constitutional principles to investigative and prosecutive procedures of criminal justice process, including arrest, search and seizure, interrogation, identification procedures and trial and sentencing. [2105-1]

3541. **Crime and Criminology.** (3). Issues of crime and factors influencing criminality. Major emphasis: causes of individual and group criminality and ability of criminal justice system to control crime.

4100. **Individual Directed Study in Criminal Justice.** (1-4). Individual direction, reading and research in special areas of interest in field of criminal justice. PREREQUISITE: permission of director. [2105-8]

4120. **Crime and Criminal Typologies.** (3). Classification of crime and typical elements involved in each type of crime; classification of offenders and salient career variables associated with each type of offender; relative to background, crime, and career prognosis. [2105-1]

4126. **The Administration of Criminal Justice.** (3). (3126). Criminal justice procedures for detection of crime and arrest of offenders through police, prosecution, and sentencing. Application of law to release and re-conviction. Policies and practices in criminal justice process. [2105-1]

4130. **Ethical Dilemmas in Criminal Justice.** (3). Legal, moral, and social implications of ethical dilemmas in criminal justice, including police use of deadly force, police discretion, victim rights, and the use of informants. [2105-1]

4150. **Internal and Criminal Justice.** (3). Experience in actual criminal justice, including initiation by department in agency, and both department and agency supervisory and direct student program. May be repeated for maximum of 6 hours. PREREQUISITE: senior standing and/or approval of director. [2105-1]

4160. **Seminar in Criminal Justice.** (3). Current criminal justice issues and problems, with review of professional literature in particular areas of criminal justice. May be repeated for maximum of 6 hours credit. PREREQUISITE: senior standing and/or approval of director. [2105-1]

4170. **Prevention and Deterrence of Crime.** (3). Theoretical and practical strategies for crime prevention and deterrence. Social, environmental, and mechanical developments. Police, courts, and correctional elements of criminal justice system with emphasis on the relationship of effectiveness and future potential for crime suppression. [2105-1]

4220. **Comparative Police Administration.** (3). Worldwide police organizations and techniques; recent developments in Great Britain, France, West Germany and Scandinavian countries. Includes analysis applicable to U.S. police agencies.

4231. **Public Relations and the Police.** (3). Role of law enforcement personnel and administrators in police-community relations; forms and possible approaches for improving communication with public; role of police officer in improvement of community relations. [2105-1]

4233. **Organized Crime.** (3). Nature, structure, characteristics, and investigation of syndicated crime; its impact on social and economic conditions in this country. [2105-1]

4235. **Private and Industrial Security.** (3). Role and function of private police organizations and legal restrictions on private security personnel. Factors of private security to include retail, industrial, and personal security.

4244-4244. **The American Prison System.** (3). (3424). Historical development, organizational structure, program content, and current problems of American correctional institutions. [2105-1]

4245-6425. **Community Based Corrections.** (3). Community based strategies for dealing with criminal offenders. Includes prison probation, pardon, diversion programs, community residential services, restitution, role of voluntary organizations, and correctional techniques suited to non-institutional settings. [2105-1]

4251. **Correctional Casework.** (3). Involves integrated physical-social-legal approach to prison, probation, parole, and reentry. Basic goals: to reduce crime and recidivism through application of acceptable standards of practice in these phases. For probation officers, counselors, classification officers, probation, parole, court, and correctional employees and students majoring in criminal justice. [2105-1]

4250-6520. **Substantive Law.** (3). (3520). Substance of the crime, including common-law sources and basic principles; types of offenses, responsibility, justification and excuse, punishment and sentencing.

4530. **Principles of Evidence and Proof.** (3). Rules of evidence and matters of proof affecting criminal investigation in investigatory and prosecutive stages of criminal justice. Socio-legal aspects of basic rules of evidence, including hearsay rules, impeachment, materiality and relevancy, privilege, eyewitness identification. [2105-1]

4532-6532. **Constitutional Rights of Prisoners.** (3). Legal status of persons during preconviction and post-conviction confinement; includes factors involving discipline, legal services, communication, medical aid, and related matters; constitutional rights of prisoners. [2105-1]

4533-6533. **The Juvenile Justice System.** (3). History, organization, programs and procedures of agencies charged with control and prevention of juvenile delinquency including police, juvenile units, juvenile court, and juvenile correctional agencies.

4541-6541. **Causes of Crime and Delinquency.** (3). Various causes of criminal behavior as approached from various disciplines and perspectives. Criminogenic influences of society and the criminal justice system; methods of reducing crime and delinquency.

For graduate course descriptions and details of the graduate program, see the Graduate Bulletin.

ENGLISH

PROFESSOR JOSEPH K. DAVIS, Chairman

Room 467, Patterson Hall

All candidates for graduation at Memphis State University are required to complete ENGL 1101 and 1102 or their equivalents, and any two of the following: ENGL 2101, 2102, 2103, 2104, 2105, 2106 or their equivalents. Freshman and sophomore students must be scheduled in consecutive semesters under the Freshman-Sophomore program, or until completed. ENGL 1101 and 1102 must be taken before ENGL 1103, no credit will be allowed for ENGL 1102 until 1101 has been completed successfully.

Students with a special interest in international literary relationships and critical theory should see the requirements for the Comparative Literature major and minor.

E080 ENGLISH (ENGL)

0101. **English as a Second Language.** (1). Introduction to English. Concentration on oral-aural skills; introduction to grammar and sentence structure. Two weekly audio-lingual laboratory periods required. Open to non-native speakers of English only. Admission by placement only. [1508-1]

0102. **English as a Second Language.** (1-2). Intermediate reading and composition. Selected readings, review of grammar, and introduction to construction of paragraphs. Audio-lingual laboratory periods required. Open to non-native speakers of English only. Admission by placement only. [1508-1]

0103. **English as a Second Language.** (1-3). Advanced composition. Advanced readings, construction of essays, and study of mechanical writing skills. Audio-lingual laboratory optional. Open to non-native speakers of English only. Admission by placement only. [1508-1]

0104. **Introduction to Composition.** (3). Review of language fundamentals and English grammar, with extensive practice in writing sentences and paragraphs. For non-native speakers of English who need instruction at the pre-English 1101 level, or who simply want a refresher course in basic writing. RESTRICTION: Satisfies no English requirement for any University degree. [1501-1]

1101. English Composition. (3). Training in writing of English sentences, paragraphs, and short compositions. Emphasis on reading, writing, and reading fiction. **PREREQUISITE:** ENGL 1100 with grade of C or better, or ACT English score of 19 or above, or SAT verbal score of 450 or above, or satisfactory completion of placement essay written under supervision of Department of English. [1502-1]

1102. English Composition and Analyses. (3). Further training in English composition related to introductory study of poetry, drama, and novel. **PREREQUISITE:** ENGL 1101 or equivalent. [1502-1]

2101. English Literature. (3). Selected readings in English literature from beginning through eighteenth century; attention to development of literary forms and to cultural context. Composition and critical thinking beyond levels expected of freshmen. **PREREQUISITES:** ENGL 1101 and 1102, or their equivalents. [1502-1]

2102. English Literature. (3). Selected readings in English literature from eighteenth century to present; attention to development of literary forms and to cultural context. Composition and critical thinking beyond levels expected of freshmen. **PREREQUISITES:** ENGL 1101 and 1102, or their equivalents. [1502-1]

2103. Modern European Fiction. (3). Selected readings in British and Continental fiction of nineteenth and twentieth centuries; attention to development of fictional forms and to making of modern European intellectual and literary tradition. Composition and critical thinking beyond levels expected of freshmen. **PREREQUISITES:** ENGL 1101 and 1102, or their equivalents. [1502-1]

2104. Poetry and Drama. (3). Selected readings of poems and plays; attention to development of genres. Composition and critical thinking beyond levels expected of freshmen. **PREREQUISITES:** ENGL 1101 and 1102, or their equivalents. [1502-1]

2105. American Fiction. (3). Selected readings in American fiction of nineteenth and twentieth centuries; consideration of characteristic themes and techniques of both American novel and American drama; attention to composition and critical thinking beyond levels expected of freshmen. **PREREQUISITES:** ENGL 1101 and 1102, or their equivalents. [1502-1]

2106. Contemporary Literature. (3). Selected readings in poetry, drama, and fiction of America, Britain, and Europe, written since World War II; attention to development of literary modes and genres. Composition and critical thinking beyond levels expected of freshmen. **PREREQUISITES:** ENGL 1101 and 1102, or their equivalents. [1502-1]

Note: No student may enroll for an upper-division English course until he has completed satisfactorily ENGL 1101, 1102, or their equivalents, and any two of the following: ENGL 2101, 2102, 2103, 2104, 2105, 2106, or their equivalents.

3100. Special Topics in Advanced English. (1-3). Literary or linguistic topic or problem. Content may vary from semester to semester. [1502-1]

3211. British Literature of the Medieval Period. (3).

3212. British Literature of the Sixteenth Century. (3).

3213. British Literature of the Seventeenth Century. (3).

3214. British Literature of the Restoration and Eighteenth Century. (3).

3221. British Literature of the Romantic Period. (3).

3222. British Literature of the Victorian Period. (3).

3224. British Literature of the Twentieth Century. (3).

3321. American Literature Before 1860. (3).

3341. The American Novel. (3). Reading of representative American novels of nineteenth century; consideration of their relation to English and European work and to American developments in genre. [1502-1]

3342. The American Novel. (3). Reading of representative American novels from 1900 to present; attention to relevant literary and cultural developments in Europe and America. [1502-1]

3500. Practical English Grammar. (3). Extended study of the fundamentals of English grammar, sentence structure, usage, diction, punctuation, and spelling.

3510. Modern English Grammar. (3). Introduction to current grammar, through a somewhat transformational generative approach. Description of sounds, word structures, syntax, and semantics of English. Neither a review of grammar nor a remedial course. [1501-1]

3511. Introduction to Linguistics. (3). Introduction to the nature and functions of human language, to its structural principles, and to its place in culture and society. Emphasis on language diversity and change through history and contact. Discussion of language and thought, origin of language, and other topics. [1501-1]

3521. The American Language. (3). History and development of American English, especially its vocabulary. Development of American grammatical tradition and of American dictionaries. Usage controversies and issues in American English. [1501-1]

3601. Scientific and Technical Writing. (3). Organizing and reporting scientific and technical information in writing. Emphasis on reports, memos, articles and essays about scientific and technical subjects. Also emphasizes documentation, bibliographies, appendices, and graphs. Appropriate patterns of organization and style of writing will be discussed. All content comes from student's field of study. **PREREQUISITES:** completion of MSI English requirement and 9 hours in student's major. [1502-1]

3602. Writing and Editing in the Professions. (3). Workshop in techniques of communication, especially in business, industry, and government. Developing practical writing skills for technical publications such as reports, data analyses, and research articles. Editing practices involved in packaging and distributing such writing in printed form. [1502-1]

3603. Internship In Writing. (1-6). Supervised on-the-job training as a writer in such fields as business, industry, and government. **PREREQUISITES:** ENGL 3602 and approval of out-of-class learning contract. Repeatable up to 6 hours. [1502-1]

3604. Intermediate Composition. (3). (2602). Study and practice of writing essays and reports at levels beyond freshman English. Focus on construction of clear, logical writing made easy. Emphasis on writing for a specialized English requirement. **PREREQUISITES:** ENGL 1101 and 1102 or their equivalents. [1501-1]

3605. Introduction to Creative Writing. (3). (2601). Introduction to the writing of fiction and poetry.

3701. Theory and Practice In Literary Criticism. (3). Introduction to literary criticism related to exercises in practical criticism. [1501-1]

4001. Senior Honors Seminar I. (3). Intensive study of problem in language or literature. Enrollment limited to English honors students. [1502-1]

4002. Senior Honors Seminar II. (3). Intensive study of problem in language or literature. Enrollment limited to English honors students. [1502-1]

4100. Special Topics In Language or Literature. (3). Focus on either language or literature. Repeatable to a maximum of 6 hours.

4231-6231. Chaucer. (3). Chaucer as literary artist, including reading of representative works and discussion of their philosophical and social context. [1502-1]

4232. Shakespeare's Tragedies. (3). Selected tragedies; detailed critical examination of at least five. [1502-1]

4233. Shakespeare's Comedies and Histories. (3). Selected comedies and histories. [1502-1]

4234-6234. Milton. (3). Milton's development as literary artist; emphasis on his poetry but some attention to his prose. [1502-1]

4241-6241. British Novel Through Austen. (3).

4242-6242. British Novel Since Scott. (3).

4251-6251. British Drama To 1642. (3).

4252-6252. British Drama Since 1660. (3).

4321-6321. American Literature: Major Writers Before 1860. (3).

4322-6322. American Literature: Major Writers Since 1860. (3).

4343. Southern Literature. (3). Southern literature from beginning to present; emphasis on nineteenth-century authors. [1502-1]

4371. Black American Literature. (3). Black American writing, from beginning to present; emphasis on major authors. [1502-1]

4381. Introduction to Folk Literature. (3). Traditional folk literature; emphasis on oral forms as talk, legend, myth, story, etc. Role of oral literature in folk culture and in modern society. Emphasis on collection of folk literature in Mid-South region. [1502-1]

4411-6411. European Literature I. (3). (3411). Major works and writers from Antiquity through the Renaissance. [1503-1]

4412-6412. European Literature II. (3). (3412). Major European literary works since the Renaissance. [1503-1]

4423. Modern British and American Poetry. (3).

4424. Modern European Fiction. (3). (3441). Movements, and writers important to development of continental fiction from late 18th century to present. [1502-1]

4461. Biblical Literature. (3). Selected books from Old and New Testaments; emphasis on literary value and consideration of place of Bible in world literature. [1503-1]

4501-6501. History of the English Language. (3). Relationship of English to other European languages; etymology and effects of word-borrowing; diachrony and diachronic change on English vocabulary; and development of English sounds, inflections, and syntax. [1503-1]

4511. The Language of Literature. (3). Intensive study of language in literature, including its structure and its styles. Discussion of language and other means of figurative language and how it creates meaning. [1501-1]

4521. Language and Society. (3). Relationship of language to society and to its place in culture. Geographical and social dialects, male/female differences, and language and speech in the classroom. Emphasis on the analysis and estimation of implications of language differences. [1501-1]

4601. Poetry Workshop. (3-6). The nature of short poems, and longer forms of fiction; critical approaches to poems and critical approaches to fiction. Repeatable to a maximum of 6 hours with permission of instructor. [1507-1]

4602-6602. Advanced Composition. (3). Principles involved in writing creative prose. Emphasis on application of these principles; analysis of readings; and of student's writing. Repeatable to a maximum of 6 hours. [1501-1]

4603. Fiction Workshop. (3-6). Nature of short story and longer forms of fiction; critical approaches to fiction and critical approaches to longer forms of fiction. Repeatable to a maximum of 6 hours with permission of instructor. [1507-1]

4604-6604. English Prose. (3). A study of metrics, forms, and types of prose in English with attention to the principal traditions and critical ideas associated with the writing of verse in English.

4605. Creative Nonfiction. (3). A study of how fiction works through analyzing the short story, the novella, and the novel with attention to technical developments.

4801-6801. Research, Report, and Term Paper Writing. (3). Principles and practices in planning, researching, organizing, writing, and documenting a 3000-4000 word paper on subjects drawn from student's field of study (e.g., social and natural

sciences, engineering, business, law, etc.). Includes proper methods of library research, and preparation of formal manuscripts, including abstract. [1502-1]

4901-6901. Honors Thesis. (1-3). A selected topic or problem in the field of literature, language, or writing. **PREREQUISITE:** consent of departmental adviser.

4996. Honors Thesis. (1-3). Under direction of faculty member, and with approval of Honors Committee and chairman, each student writes a written thesis based on primary and/or secondary sources. **PREREQUISITE:** admission to departmental honors program. [1502-1]

Graduate courses in English. For course descriptions and further details of the graduate program, see *The Bulletin of The Graduate School*.

FOREIGN LANGUAGES

PROFESSOR RICHARD O'CONNELL,
Chairman

Room 375A, Dunn Mathematics
Foreign Languages Building

Students with a special interest in international literary relations and critical theory should see the requirements for the Comparative Literature major and minor.

1110 CLASSICS (CLAS)

With the exception of CLAS 4791, none of the following courses may be used to satisfy the foreign language requirements, nor may they be applied toward a major in classical languages.

2021. Word Origins and Vocabulary Development. (3). Latin and Greek elements found in English, emphasis on building of standard English vocabulary. [1501-1]

2481. Greek and Roman Mythology. (3). Thematic study of classical myths and their function in ancient literature. Emphasis on reading myths in ancient sources in translation. [1501-1]

3021. Scientific Terminology. (3). Origin and derivation of words used in medicine and the sciences; emphasis on building of scientific vocabulary. [1501-1]

3142. Roman Culture. (3). Study based on literary sources, of public and private life, including such topics as family life, slavery, agriculture, government, and technology. Recommended for Teachers. [1109-1]

3433. Greek Literature in Translation. (3). Reading and analysis of masterpieces of Greek literature in English translation from Homer to Lucian. Emphasis on development of literary types. [1503-1]

3414. Roman Literature in Translation. (3). Reading and analysis of masterpieces of Roman literature in English translation from origins to close of Silver Age. Emphasis on genres of Roman literature. [1503-1]

4791. Special Studies in Classics. (1-3). Topics in classical literature and civilization. May be repeated for maximum of six hours credit. **PREREQUISITE:** permission of chairman and instructor. [1504-8]

E140 GREEK (GREK)

1101. Elementary Greek. (3). Elements of Greek grammar and syntax; practice in reading and translation. [1110-1]

1102. Elementary Greek. (3). Completion of basic grammar and syntax; practice in reading and translation. **PREREQUISITE:** GREK 1101 or the equivalent. [1110-1]

2100. Xenophon. (3). Reading and interpretation of Xenophon's *Anabasis*. **PREREQUISITE:** GREK 1102 or the equivalent. [1100-1]

3111. Greek Historians. (3). Reading and analysis of selected from Herodotus, Herodotus, Thucydides, and later Greek historians. [1111-1]

3511. Greek Tragedy. (3). Reading and analysis of selected tragedies of Aeschylus, Sophocles, and Euripides. [1110-1]

3911. Plato's *Apology*, *Crito*, (3). Reading and analysis of dialogues of Plato which give a preview to death of Socrates. [1110-1]

4441. Homer. (3). Reading and analysis of selections from Homer's *Iliad* and *Odyssey*. [1110-1]

E170 LATIN (LATN)

1101. Elementary Latin. (3). Elements of grammar; practice in Latin composition and translation. [1105-1]

1102. Elementary Latin. (3). Completion of elementary Latin grammar, with additional readings. **PREREQUISITE:** LATN 1101 or the equivalent. [1109-1]

2301. Intermediate Latin. (3). Review of basic Latin grammar with reading selections from *The Golden Fleece* and *Roman History*. **PREREQUISITE:** LATN 1102 or the equivalent. [1109-1]

2202. Intermediate Latin. (3). More advanced readings from major authors. **PREREQUISITE:** LATN 2201 or equivalent. [1109-1]

3111. Roman Historians. (3). Readings and analysis of selections from Caesar, Livy, Tacitus, and Suetonius; emphasis on nature of Roman history. [1109-1]

3211. Vergil. (3). Reading and analysis of the *Aeneid*. [1109-1]

3811. Ovid. (3). Reading and analysis of the myths in Ovid's *Metamorphoses*. [1109-1]

3912. Cicero. (3). Reading and analysis of *De Amicitia* and *De Senectute*. [1109-1]

4411. **Roman Letter Writers.** (3). Reading and analysis of Cicero's Letters. [1109-1]

4416. **Roman Satire.** (3). Reading and analysis of satires of Horace, Persius, and Juvenal. [1109-1]

4417. **Elegy, Lyric, and Epigram.** (3). Reading and analysis of selections from Catullus, Horace, Tibullus, Propertius, and Martial. [1109-1]

E210 LANGUAGES (LANG)

1701-1702. Special Studies in Modern Foreign Languages. (3, F). Freshman-level instruction in languages not regularly offered by Department of Foreign Languages, offered if and when sufficient numbers of students are interested in taking them. Although credit earned in these courses may be used to satisfy foreign language requirements for degrees, students should be aware of two important points: (1) foreign language courses offered by the College of Liberal Arts and Sciences specifies that all twelve semester hours (or six for some professional degrees) must be in same language; (2) unless demand is sufficient and unless teachers are available, the College of Liberal Arts and Sciences may be unable to meet these requirements. [1101-1]

2701-2702. Special Studies in Modern Foreign Languages. (3, F). Continuation of Language 1701-1702. Offered provided instructor is available and there is sufficient student enrollment. [1101-1]

4701-6701. Language Study for Reading Knowledge. (3). Introduction to reading of French, German, Russian, or Spanish. Intensive drill in recognizing and interpreting grammatical structures, especially those peculiar to scholarly written language. Emphasis both on voluntary reading and on interpretation of readings previously prepared by students. Reading of texts in target language at sight or after preparation. No previous knowledge of language required. Does not fulfill any part of undergraduate language requirement and cannot be applied toward major.

001. FRENCH [1102-1]
 002. GERMAN [1103-1]
 003. RUSSIAN [1106-1]
 004. SPANISH [1105-1]

4702-6702. Language Study for Reading Knowledge. (3). Continuation of Language 4701-6701. Further study of recognition of interpreting grammatical structures. Reading of specialized scholarly texts. Does not fulfill any part of undergraduate language requirement and cannot be applied toward major.

001. FRENCH [1102-1]
 002. GERMAN [1103-1]
 003. RUSSIAN [1106-1]
 004. SPANISH [1105-1]

E120 FRENCH (FREN)

1101. Elementary French. (3). Elements of grammar and pronunciation; reading of simple selections. [1102-1]

1102. Elementary French. (3). Reading selections of increasing difficulty. PREREQUISITE: FREN 1101 or equivalent. [1102-1]

2201. Intermediate French. (3). Comprehensive review of French grammar, exercises in writing, and readings in French literature and culture. PREREQUISITE: FREN 1102 or equivalent. PREREQUISITE: FREN 2201 or equivalent. [1102-1]

2202. More Intermediate French. (3). More advanced readings. PREREQUISITE: FREN 2201 or equivalent. [1102-1]

3301. Conversation and Composition. (3). PREREQUISITE: FREN 2202 or equivalent. [1102-1]

3302. Conversation and Composition. (3). PREREQUISITE: FREN 2202 or equivalent. [1102-1]

3401. French Civilization. (3). Culture of France as reflected in its history, social institutions, art, and music. Recommended for all French majors. PREREQUISITE: FREN 2202 or International Business majors. [1102-1]

3411. Readings in French Literature. (3). Selections from origins to present time. Emphasis on textual analysis. PREREQUISITE: FREN 3301 recommended. [1102-1]

3791. French for Practical Affairs. (3). Introduction to French business terminology and forms of correspondence with particular readings of documents and correspondence from business publications. PREREQUISITE: FREN 3301 recommended. [1102-1]

3792. French for Practical Affairs. (3). Continuation of French 3791. PREREQUISITE: FREN 3791 or equivalent. [1102-1]

4301-6301. French Phonetics. (3). Theory and practice of French sounds; especially recommended for teachers of French. PREREQUISITE: three years of college French or permission of instructor. [1102-1]

4306-6306. Applied French Linguistics. (3, (4501). Current topics in linguistics, psycholinguistics and sociolinguistics including contributions to second language teaching and second-language learning.

4411. Literature Before 1600. (3). Survey of representative masterpieces of Middle Ages and Renaissance. Readings from Middle Ages include *A Chaste Romance*, *La Vie de Marie*, *Le Roman de la Rose*, and *Le Roman de la Rose*. Readings from Renaissance include selections from *Gargantua et Pantagruel*, *Essays de Montaigne*, *Defense et Illustration de la Langue Françoise*, and poetry of Marot, Sceve, du Bellay, and Ronsard. [1102-1]

4412. The Seventeenth Century. (3, (3421, 3422). Survey of classical literature; emphasis on theatre of Corneille, Molière, and Racine and their relationship to critical theories of Boileau. Selected readings from Mme de Lafayette, La Fontaine, Mme de Sevigne, La Bruyère, and La Rochefoucauld. [1102-1]

4431-6431. The Nineteenth Century French Novel. (3). French novel from Revolution to twentieth century, treating of literature of Restoration, Empire, and Napoleon, as reflected in works of such authors as Balzac, Stendhal, Flaubert, and Zola. [1102-1]

4432-6432. The Twentieth Century French Novel. (3). Survey of twentieth-century French novels including Proust, Gide, Maupassant, Mauprat, Satyre, Camus, Robbe-Grillet. [1102-1]

4433-6433. The Twentieth Century French Drama. (3). French drama from 1800 to 1890, including Hugo, Vigny, Scribe, Augier, Labiche, Dumas, Cuvier, Brieux, Melville, and Rosstand. [1102-1]

4452-6452. Twentieth Century French Drama. (3). Principal dramatists of present century, including Claudel, Giraudoux, Sartre, Cocteau, Prounouf, Montherlant, Beckett, Ionesco, and others. [1102-1]

4471-6471. Nineteenth Century Poetry. (3). French poetry from Lamartine to Mallarme. [1102-1]

4791. Special Studies in French Literature. (3). Topics in French literature. May be repeated for maximum of 6 hours credit. PREREQUISITE: permission of the chairman and instructor. [1102-1]

LANG 4701001. French for Reading Knowledge. (3). See LANG 4701.

LANG 4702001. French for Reading Knowledge. (3). See LANG 4702.

Graduate courses in French: For course descriptions and further details of the graduate program, see the Bulletin of the Graduate School.

E130 GERMAN (GERM)

1101. Elementary German. (3). Elements of grammar and pronunciation; reading of simple selections. (Sections using audio-visual methods also offered.) [1103-1]

1102. Elementary German. (3). Reading selections of increasing difficulty. (Sections using audio-visual methods also offered.) PREREQUISITE: GERM 1101 or equivalent. [1103-1]

2201. Intermediate German. (3). Comprehensive review of German grammar, exercises in reading, and readings in German literature and culture. PREREQUISITE: GERM 1102 or equivalent. [1103-1]

2202. Intermediate German. (3, 2201). More advanced readings. PREREQUISITE: GERM 2201 or equivalent. [1103-1]

2203. Scientific German. (3). A continuation of 2201, with special emphasis on scientific areas. PREREQUISITE: GERM 2201 or equivalent. [1103-1]

3301. Conversation and Composition. (3). PREREQUISITE: GERM 2202 or equivalent. [1103-1]

3302. Conversation and Composition. (3). PREREQUISITE: GERM 2202 or equivalent. [1103-1]

3411. Introduction to German Literature and Culture I. (3). From beginnings to late eighteenth century. PREREQUISITE: GERM 2202 or equivalent. [1103-1]

3412. Introduction to German Literature and Culture. II. (3). From late eighteenth century to modern period. PREREQUISITE: GERM 2202 or equivalent. [1103-1]

3471. German Poetry. (3). Survey of lyric and ballad from twelfth to twentieth centuries; readings from Minnesang, Troubadour, Sturm und Drang, early Romantics, Romantics, Realists, and modern period. PREREQUISITES: two courses from the group GERM 3301, 3302, 3411, 3412; or permission of instructor. [1103-1]

3791. German for Commerce. (3). Introduction to German business terminology and forms of correspondence; regular readings of business, commercial and technical publications. PREREQUISITE: GERM 2202 or equivalent. [1103-1]

3792. German for Commerce. (3). PREREQUISITE: GERM 3791. [1103-1]

4434-6443. Major German Writers of the Twentieth Century. (3). Reading of major works of Goethe and Schiller. Selected readings from other German writers of period. PREREQUISITE: two courses from the group GERM 3301, 3302, 3411, 3412; or permission of instructor. [1103-1]

4451-6451. The German Drama. (3). Survey of dramatic literature from sixteenth to twentieth centuries; readings from *Reformation*, *Baroque*, *Romanticism*, *Sturm und Drang*, *Realism*, and *Modernism*. PREREQUISITES: two courses from the group GERM 3301, 3410, 3411, 3412; or permission of instructor. [1103-1]

4465. German Narrative Prose. (3). Reading of major prose writings from Romanticism to present. Emphasis on the *Reformation*. PREREQUISITES: one course from the group GERM 3301, 3302, 3410, 3411, 3412; or permission of instructor. [1103-1]

4501. Applied German Linguistics. (3). Application of modern linguistic theories to learning German. PREREQUISITES: two courses from the group GERM 3301, 3410, 3411, 3412, or permission of instructor. [1103-1]

4511. The German Language: Development and Structure. (3). German language in its various stages of development. PREREQUISITE: GERM 3301 or 3302; or permission of instructor. [1103-1]

4791. Special Studies in German Language or Literature. (3). German language or literature. May be taken twice for credit. PREREQUISITE: permission of chairman and instructor. [1103-1]

LANG 4701002. German for Reading Knowledge. (3). See LANG 4701.

LANG 4702002. German for Reading Knowledge. (3). See LANG 4702.

E160 ITALIAN (ITAL)

1101. Elementary Italian. (3). Elements of grammar and pronunciation; reading of simple selections. [1104-1]

1102. Elementary Italian. (3). Selections of increasing difficulty. PREREQUISITE: ITAL 1101 or equivalent. [1104-1]

2201. Intermediate Italian. (3). Comprehensive review of Italian grammar, exercises in writing, and readings in Italian literature and culture. PREREQUISITE: ITAL 1102 or equivalent. [1104-1]

2202. Intermediate Italian. (3). More advanced readings. PREREQUISITE: ITAL 2201 or equivalent. [1104-1]

3411. Survey of Italian Literature. (3). Development of Florentine dialect as literary language of Italy. Representative writers from thirteenth to eighteenth century. Dante. PREREQUISITE: ITAL 2202 or permission of the instructor. [1104-1]

3412. Survey of Italian Literature. (3). Outstanding writers of eighteenth, nineteenth, and twentieth centuries; attention to Goldoni, Alfieri, Leopardi, Manzoni, Pirandello, and Benedetto Croce. PREREQUISITE: ITAL 3411 or permission of instructor. [1104-1]

4421. The Sixteenth Century. (3). Literature of Italian Renaissance: Ariosto, Machiavelli, Cellini, Sasso, and others. [1104-1]

4441. Dante. (3). *The Vita Nuova* and *Divina Commedia*. [1104-1]

E190 RUSSIAN (RUSS)

1101. Elementary Russian. (3). Elements of grammar and pronunciation; reading of simple selections. [1105-1]

1102. Elementary Russian. (3). Selections of increasing difficulty. PREREQUISITE: RUSS 1101 or equivalent. [1105-1]

2201. Intermediate Russian. (3). Comprehensive review of Russian grammar, exercises in writing, and readings in Russian literature and culture. PREREQUISITE: RUSS 1102 or equivalent. [1105-1]

2202. Intermediate Russian. (3). More advanced readings. PREREQUISITE: RUSS 2201 or equivalent. [1105-1]

3301. Conversation and Composition. (3). PREREQUISITE: RUSS 2202 or equivalent. [1105-1]

3302. Conversation and Composition. (3). PREREQUISITE: RUSS 3301 or permission of instructor. [1105-1]

3411. Survey of Russian Literature. (3). From earliest chronicles to 1917. PREREQUISITE: RUSS 2202 or equivalent through classical period to end of eighteenth century. [1105-1]

3412. Survey of Russian Literature. (3). From beginning of nineteenth century to Soviet period. Authors include Pushkin, Gogol, Lermontov, Turgenev, Dostoevsky, Tolstoy, and Chekhov. [1105-1]

3441. Russian Literature of the Nineteenth Century. (3). Introduction to authors who herald Golden Age of Russian Literature; representative works from Pushkin, Lermontov, Gogol, and Turgenev. [1105-1]

3442. Russian Literature of the Twentieth Century. (3). Readings in representative works of Dostoevsky, Tolstoy, and Chekhov. [1105-1]

3443. Russian Literature of the Twentieth Century. (3). Introduction to works of Bunin, Zamyatin, Bely, A. Tolstoy, Scholokhov, and Solzhenitsyn. [1105-1]

3444. Russian Literature of the Twentieth Century. (3). Introduction to works which herald Silver Age of Russian poetry. Authors include Pasternak, Brusov, Akhmatova, Zuevetsava and Mandelstam. [1105-1]

3611. Survey of Russian Civilization. (1). (COLI 3611). Russia and its people: highlights of Russian civilization as revealed in the fields of literature, music, painting, and architecture. May not be used for Russian language credit. [1105-1]

4309. The Art of Translating Russian. (3). Translations of Russian literature into English. Application required. PREREQUISITE: RUSS 2202 or equivalent. [1105-1]

LANG 4701003. Russian for Reading Knowledge. (3). See LANG 4701.

LANG 4702003. Russian for Reading Knowledge. (3). See LANG 4702.

E200 SPANISH (SPAN)

1101. Elementary Spanish. (3). Elements of grammar and pronunciation; reading of simple selections. [1105-1]

1102. Elementary Spanish. (3). PREREQUISITE: SPAN 1101 or equivalent. [1105-1]

2201. Intermediate Spanish. (3). Comprehensive review of Spanish grammar, exercises in writing, conversation, and readings in Hispanic literature and culture. PREREQUISITE: SPAN 1102 or equivalent. [1105-1]

2202. Intermediate Spanish. (3). More advanced readings. PREREQUISITE: SPAN 2201 or equivalent. [1105-1]

3300. Spanish Literature and Civilization. (3). Practice in use of the language. May be repeated for maximum of 6 credit hours. PREREQUISITE: SPAN 2202 or equivalent. [1105-1]

3410. Spanish Literature and Civilization. (3). Masterpieces of Spanish literature coordinated with discussions of civilization and history. PREREQUISITE: SPAN 2202 or equivalent.

3510. Spanish American Literature and Civilization. (3). Masterpieces of Spanish American literature coordinated with discussions of civilization and history. PREREQUISITE: SPAN 2202 or equivalent. [1105-1]

3791. Spanish for Commerce. (3). Introduction of Spanish business terminology and forms of correspondence, regular readings of business, commercial and technical publications. PREREQUISITE: SPAN 2202 or equivalent. [1105-1]

3792. Spanish for Commerce. (3). Continuation of Spanish 3791. PREREQUISITE: SPAN 3791. [1105-1]

4301-6301. **Spanish Phonology.** (3). Principles of analysis of the sound system of human language; general sound system (phonetics) of Spanish; distinctive features (phonemics) of Spanish; and phonemic contrastive analysis of sound systems of Spanish and English.

4302-6302. **Advanced Grammar.** (3). Thorough and systematic treatment of Spanish grammar. Recommended for all Spanish majors. PREREQUISITE: SPAN 3301 and 3302. [1105-1]

4304-6304. **Evolution of Spanish.** (3). General history of Spanish language, based on political and cultural history of Spain and Spanish America. History of social systems, grammatical structures, wordborrowings, and changes in meaning.

4309-6305. **Spanish American Dialectology.** (3). Fundamental notations of language variation, regional and social varieties and linguistic demography of general features of Latin American Spanish with respect to phonology, morphosyntax, and semantics.

4306-6306. **Exploded Spanish Linguistics.** (3). (4501) Current research in linguistics, psycholinguistics and sociolinguistics and their contribution to second-language teaching and second-language learning.

4420-6420. **Medieval Spanish Literature.** (3). Reading of Old Spanish. Medieval Spanish literature from Mozarabic lyric through the 15th century.

4421-6421. **The Golden Age.** (3). Spanish lyric poetry and drama of sixteenth and seventeenth centuries. PREREQUISITES: SPAN 3411 and 3412, or permission of instructor. [1105-1]

4423-6423. **Cervantes.** (3). *Don Quixote* and the Novelas ejemplares. [1105-1]

4430-6430. **18th and 19th Century Spanish Literature.** (3). Romantic and post-romantic poetry and drama. Customs and rise of regional novel, realistic novel, and naturalistic novel.

4431-6431. **Contemporary Spanish Prose.** (3). Spanish prose from Generation of 1898 to present. PREREQUISITES: SPAN 3411 and 3412, or permission of instructor. [1105-1]

4432-6432. **Contemporary Spanish Poetry and Drama.** (3). Spanish poetry and drama from Generation of 1898 to present. PREREQUISITES: SPAN 3411 and 3412, or permission of instructor. [1105-1]

4532-6532. **Spanish American Drama.** (3). Development of the drama in Spanish America; emphasis on twentieth century. PREREQUISITES: SPAN 3411-3412 or one of SPAN 3511, 3512, 3513, 3514, 3515.

4561-6561. **Spanish American Prose Fiction I.** (3). Development of novel and short story in Spanish America from beginnings through Mexican Revolution PREREQUISITE: SPAN 3511. [1105-1]

4562-6562. **Spanish American Prose Fiction II.** (3). Spanish American novel and short story from Mexican Revolution to present. PREREQUISITE: SPAN 3512. [1105-1]

4791-6791. **Special Studies in Hispanic Literature.** (3). Topics in Hispanic Literature. May be repeated for maximum of 6 hours credit. PREREQUISITE: permission of chairman and instructor. [1105-1]

LANG 4701004. Spanish for Reading Knowledge. (3). See LANG 4701.

LANG 472004. Spanish for Reading Knowledge. (3). See LANG 4702.

Graduate courses in Spanish: For course descriptions and further details of the graduate program, see *The Bulletin of The Graduate School*.

GEOGRAPHY

PROFESSOR W. THEODORE MEALOR,
Chairman

Room 115, Johnson Hall

The prerequisite for all 3000 and 4000 level courses is either junior standing (a minimum of 55 semester hours credit) or the permission of the instructor.

E220 GEOGRAPHY (GEOG)

1101. Introduction to Earth Science: Weather and Climate. (4). Earth-sun and earth-moon relations, oceans and their movements, weather, and climate. Three lecture, two laboratory hours per week. [1917-1]

1102. Introduction to Earth Sciences: Landforms. (4). Maps as basic tool in understanding earth phenomena, landforms, and selected aspects of local physical geography. Three lecture, two laboratory hours per week. [1917-1]

1401. Introduction to Human Geography. (3). Geographical aspects of human beings and their distribution on the earth; patterns of such distribution; characteristics as language, religion, politics, and economics. [2206-1]

2301. Survey of Developed World Regions. (3). Introduction to essential elements of geographical analysis to establish framework for understanding complexities of contemporary world. Survey of those regions of world generally referred to as "developed," which encompasses most of Africa, Asia, and Latin America. [2206-1]

2311. Survey of Industrialized World Regions. (3). Emphasis on more highly "developed" areas, including Europe, North America, and Soviet Union. [2206-1]

3200. Peoples and Cultures of the World (Same as ANTH 3200). (3). Major ethnographic areas and selected cultures of world. [2202-1]

3221. Principles of Conservation. (3). (3411). Current problems and responsibilities relating to conservation of soil, minerals, forests, water, wild life, and natural beauty of earth. [2206-1]

3430. Economic Geography. (3). (3201, 3211). Spatial characteristics and distribution of economic activities. [2206-1]

3451. Geography of Regional and Local Regional Planning. (3). Introduction to urban and regional planning emphasizing spatial relationships of physical, economic, and cultural phenomena relevant in planning process. [2006-1]

3501. Map Intelligence. (3). Comprehensive study of maps as geographic tools that enable user to gain knowledge of earth through map reading and map interpretation and to make intelligent use of maps in solving geographical problems. [2206-1]

3502. Map Projections: Analysis and Construction. (3). Analysis and construction of select number of projections for depicting earth's curved surface as transformed to plane surface to provide accurate framework for displaying particular features of earth. [2206-1]

4111-6111. Earth Science I. The Atmosphere. (3). Physical processes underlying behavior and responses of atmosphere and application to understanding of relationship of man to this important element of his environment. [1917-1]

4121-6121. Earth Science II. The Earth. (3). Land forms, their changes, and their uses to man. [1917-1]

4122-6122. Earth Science III. The Soil. (3). Analytical study of soil including physical, chemical, and biological qualities and their classes, uses, and measures of conservation. [1917-1]

4131-6131. Earth Science IV. The Oceans. (3). Analytical study of the oceans to include their physical, chemical, and biological qualities, their movement, resources, physical interrelationships, and importance for transportation. [1917-1]

4201-6201. Urbanization and Environment. (3). Ways man has changed natural environment by urbanization and how physical features and processes influence development and function of cities. [2206-1]

4203-6203. Land Use Analysis. (3). Analysis of site characteristics and suitability for land development. Emphasis on environmental problems and human use as they relate to site selection and development.

4211-6211. Climatology. (3). Systematic/regional study of climate. Emphasis on controlling factors in climate, problems in climate analysis, climate types, world distributional patterns, and methods of handling climate data. [2206-1]

4231-6231. Water Resources. (3). Hydrologic processes and their application to needs of cities, industry, agriculture, and recreation. [2206-1]

4251-6251. Environmental Threats to Human Survival. (3). Survey of environmental threats to man, some of which may threaten survival of human species. Spectrum of threats ranges from planet-wide climatic changes and potential changes in earth-sun relations to more immediate threats such as inadequate food production, local disasters, and nuclear contamination. [2206-1]

4304-6304. Geography of Europe. (3). Geographic analysis of lands west of Iron Curtain. [2206-1]

4309-6305. Geography of the USSR. (3). Regional analysis of Soviet Union and its satellites. [2206-1]

4306-6306. Geography of Asia. (3). Significance of regional differences in Japan, China, and India, and brief survey of remaining areas. [2206-1]

4313-6313. Geography of the United States and Canada. (3). (3311). Physical and economic characteristics of United States and Canada. [2206-1]

4316-6316. Geography of the South. (3). Selected regions in South; emphasis on changes and trends in cultural-physical complex. [2206-1]

4324-6324. Geography of Middle America. (3). Regions and resources of Mexico, Central America, and West Indies related to problems of the United States and Canada. Students who have received credit for GEOG 3314 or 4314 will not be allowed credit for GEOG 4324. [2206-1]

4325-6325. Geography of South America. (3). Regional economies, resources, and trade in the continent, with stress on changing significance of Andean related to natural and international problems. Students who have received credit for GEOG 3315 or 4315 will not be allowed credit for GEOG 4325. [2206-1]

4421-6421. Political Geography. (3). Introduction to spatial distribution, characteristics, and interaction of political processes in selected individual study of selected problems required. [2206-1]

4431-6431. Urban Geography. (3). Allocation of land for urban uses, adjustments and adaptations to existing physical phenomena; patterns, functions, and forms of specific urban land and urban society; some of the most common problems of urban development and growth. [2206-1]

4434-6434. Land Utilization and Settlement. (3). Characteristic ways that man utilizes land. Emphasis on effect of urban growth on settlements and landholding patterns in rural areas. [2206-1]

4436-6442. Geography of Business and Industrial Location. (3). Geography of retailing, wholesaling, and manufacturing; emphasis on locational analysis of selected business enterprises. [2206-1]

4443-6443. Transportation Geography. (3). Various transportation modes and networks and impact they have on land use and geographical development of regions. [2206-1]

4443-6453. Geography of Food and Agriculture. (3). Ability of earth-surface areas to produce food necessary to sustain rapidly growing world population. Includes environmental constraints which tend to limit food production and produce food supply crises. [2206-1]

4501-6501. Map Design. (3). Introduction to cartographic theory, planning and construction of maps. [1999-1]

Foreign Languages - Geography - History

4502-6502. Computer Mapping. (3). Use of computer mapping programs as effective techniques for visual presentation of wide variety of data. [1999-1]

4503-6503. Map Production. (3). Scribing, color separation, printing, and darkroom processes. [1999-1]

4510-6510. Aerial Photo Interpretation. (3). Elements and steps involved in interpreting, measuring, and mapping of images obtained from aircraft and satellites. [2206-1]

4511-6511. Remote Sensing in the Environment. (3). Survey of theory and application of using color, infrared, thermal, and radar images generated from aircraft and satellites for geographic, environmental, and planning purposes. [2206-1]

4512-6512. Quantitative Methods. (3). Introduction to quantitative methods in geographic analysis. [2001-1]

4531-6531. Urban Planning. (3). Urban planning field techniques, urban processes and analysis. [2206-1]

4621-6991. Special Problems. (1-3). Student, under faculty supervision, studies in-depth particular geographic topic. Repeatable with change in content to maximum of 3 semesters hours. [2206-8]

4700-6700. Geography Internship. (1-9). Experience working with a professional in geographic field. Internship can be repeated. Repeatable to maximum of 9 semester hours. [2206-5]

Graduate courses in Geography: For course descriptions and further details of the graduate program, see *The Bulletin of The Graduate School*.

HISTORY

PROFESSOR AARON M. BOOM, Chairman

Room 100, Mitchell Hall

All candidates for graduation at Memphis State University are required to complete History 2601 and 2602.

E240 HISTORY (HIST)

1301. The Development of World Civilization I. (3). Especially recommended for freshmen. Traces forms of civilization from ancient beginning through seventeenth century. [2205-1]

1302. The Development of World Civilization II. (3). Especially recommended for freshmen. Traces forms of civilization beginning of the eighteenth century to present. [2205-1]

2601. The United States to 1877. (3). United States from discovery to end of political reconstruction. [2205-1]

2602. The United States since 1877. (3). United States from 1877 to present. [2205-1]

3010. Special Issues in History. (3). May be repeated for a maximum of nine hours when the topic varies. [2205-1]

3021. History of the Christian Church. (3). From its New Testament origins to 20th century. [2205-1]

3030. History of Technology. (3). Technological development and its historical context from earliest times to present. [2205-1]

3121. England Before 1714. (3). Political, constitutional, cultural, social, and economic development of England from coming of Anglo-Saxons until Hanoverian accession in 1714. [2205-1]

3122. England Since 1714. (3). Development of England's democratic government, considering economic, social, intellectual, diplomatic, and imperial affairs. [2205-1]

3121. Colonial Latin America. (3). Political, economic, social and cultural development in Latin America from pre-conquest era to 1805. [2205-1]

3212. The Latin American Nation. (3). Major political, economic, social, and cultural development in Latin America since 1805. Emphasis on Argentina, Brazil, Chile, and Mexico. [2205-1]

3271. The Middle East. (3). Political, diplomatic, social and religious developments in Middle East from 1800 to present. [2205-1]

3290. Traditional Asia. (3). Comparative survey of civilization in India, China, Japan, and Southeast Asia, from their beginning through the 15th century. [2205-1]

3301. Early Modern Europe, 1500-1800. (3). [2205-1]

3302. Modern Europe, 1800 to Present. (3). [2205-1]

3505. Cultural and Intellectual History of Europe I. (3). (4505). Topics in history of European culture and thought from classical Greece through high Middle Ages. [2205-1]

3506. Cultural and Intellectual History of Europe II. (3). (4506). Topics in history of European culture and thought from late Middle Ages to twentieth century. [2205-1]

3803. American Diplomatic History. (3). Though including the 18th and 19th centuries, course concentrates on 20th. Emphasizes relationship between foreign policy and domestic policy. [2205-1]

3804. United States Constitutional History. (3). Constitutional developments from colonial period to present; emphasis on English heritage, constitutional antecedents of revolutionary era, origins and growth of federal system under Constitution of 1787, and evolution of modern constitutional government in United States. [2205-1]

3805. Economic History of the United States. (3). Note: Students who have received credit for HIST 3821 or 3822 will not be allowed credit for HIST 3805.

3806. American History of the United States. (3). Note: Students who have received credit for HIST 3821 or 3822 will not be allowed credit for HIST 3806.

3863. Social and Intellectual History of the United States. (3). Note: Students who have received credit for HIST 3861 or 3862 may not be awarded credit for HIST 3863. [2205-1]

3864. History of Tennessee. (3). Political, economic, and social development of Tennessee from earliest times. [2205-1]

3920. The Old South. (3). Southern institutions prior to outbreak of Civil War. [2205-1]

3930. The New South. (3). South from Civil War to present. [2205-1]

3940. The West. (3). Significance of frontier in development of United States from Revolutionary period to 1890. [2205-1]

4000. The Cold War. (3). History as a distinct discipline. Thought of leading Western philosophers on history and theory of history about actuality. [2205-1]

4010-6010. Topics in History. (3). Intensive study of selected topics in history. Topics announced in Schedule of Classes. [2205-1]

4012. Directed Readings, Honors. (3). Under the direction of faculty member, student reads about particular topic or topics. PREREQUISITE: admission to Honors Program. [2205-8]

4014. Directed Readings. (3). Readings on particular topic in history under supervision of member of faculty. [2205-8]

4020-6020. Internship in History. (3-12). Supervised internship with various governmental agencies, foundations, or business enterprises to gain practical experience. May be repeated for up to twelve credit hours. PREREQUISITE: permission of department. [2205-8]

4070. Seminar in Historical Research. (3). Research techniques and methods by focusing on particular topics. [2205-1]

4126-6126. Victoria and Edward in England. (3). Social, political, and religious changes in England during the period of industrialization in 19th and early 20th centuries. [2205-1]

4145-6145. History of Modern Germany. (3). Germany from origins of unification movement in Napoleonic Era through Second World War. [2205-1]

4160-6160. Russia to 1917. (3). Russia from earliest times to 1917, emphasis on the rise of serfdom and autocracy and the development of socialist movement. [2205-1]

4182-6182. History of the Soviet Union. (3). Detailed study of 1917 Revolution and major developments in government, economy, cultural and social life, and international affairs which followed. [2205-1]

4183-6183. History of Socialism and Marxism. (3). Socialist and Marxist thought and its influence on the development of social, economic, and political conditions which gave rise to experimentation with and application of Marxism. [2205-1]

4200-6200. History of Spain. (3). (3200). Spanish institutions, culture and politics from ancient times to present. [2205-1]

4240-6240. History of Mexico. (3). Political, economic, social, and cultural development of Mexico from ancient times to the present. [2205-1]

4250-6250. History of Brazil. (3). Political, economic, social, and cultural development of Brazil from early times to the present. [2205-1]

4260-6260. The World Since 1945. (3). Global ideological economic and political developments since World War II. Emphasis on effects of atomic bomb, free market, movement of former colonies to independence and growth in diversity among Soviet bloc nations. [2205-1]

4281-6281. Black History of the South. (3). Emphasis on black Africa in nineteenth and twentieth centuries: Age of imperialism and impact of West on Africa; colonial policies of imperial powers; rise of nationalist movements; problems of newly independent nations; role of African countries in world affairs. [2205-1]

4282-6282. The History of North Africa. (3). Emphasis on nineteenth and twentieth centuries: Extension of European influence; impact of nationalist movements; role of these areas in world affairs. [2205-1]

4283-6283. The History of Southern Africa. (3). European colonization and impact on African people from 1652 to date of Republic of South Africa, Rhodesia, and former High Commission territories. [2205-1]

4292-6292. History of Modern China, 1800 to the Present. (3). [2205-1]

4294-6294. History of Modern Japan, 1800 to the Present. (3). [2205-1]

4295-6295. Intellectual History of East Asia Since 1800. (3). Evolution of modern Chinese and Japanese thought. [2205-1]

4312-6321. History of Ancient Civilization I. (3). Ancient Near East and Greece through time of Alexander the Great. [2205-1]

4322-6322. History of Ancient Civilization II. (3). Hellenistic World and the fall of Roman Empire. [2205-1]

4341-6361. History of Byzantine Empire. (3). Byzantine and Eastern Roman Empires from 330 to 1453 and their influence on Slavic, Turkic, and Islamic peoples. [2205-1]

4371-6371. Early Middle Ages. (3). Late Roman Empire, migration period, emergence of Islam; Byzantine, and West European cultures through period of Investiture Controversy. [2205-1]

4420-6420. The High Middle Ages. (3). Urban emergence, growth of feudal monarchy, foundations of modern political institutions, medieval universities, and intellectual fabric of scholasticism. [2205-1]

4380-6380. Renaissance Europe, 1300-1520. (3). Transition from medieval to early modern institutions in Europe; emphasis on urban growth, capitalism, emergent nationalism, international diplomacy, and humanism. [2205-1]

may take it for credit by making written application to the chairman of the department and paying the appropriate fees for such credits to be recorded, prior to the exam.

4390-6390. Europe in the Age of the Reformation. (3). Cultural, political, social, economic, intellectual, and cultural development and religious conflicts of late fifteenth and sixteenth centuries. [2205-1]

4401-6401. Europe in the Age of the Baroque. (3). Political, economic, development of monarchial absolutism, rise of modern science, and cultural synthesis in seventeenth century. [2205-1]

4440-6440. The Era of the French Revolution. (3). The Old Regime, origins and development of Enlightenment thought, and revolutionary and counter-revolutionary movements in 18th century Europe. [2205-1]

4453-6453. Europe, 1815-1914. (3). Note: Students who have received credit for HIST 4451 or 4452 will not be allowed credit for HIST 4453. [2205-1]

4451-6451. Europe, 1914-1945. (3). [2205-1]

4503-6503. Disease and Medicine in History. (3). How various diseases and the medical attempts to conquer them influenced economic, political, and social action throughout history. Emphasis on significant work in history of public health and significant absolute importance of environmental factors in man's future. [2205-1]

4620-6620. Colonial America, to 1783. (3). Political development and economic, social and cultural institutions of English Colonies in America, including origins and conduct of American Revolution. [2205-1]

4630-6630. The New Nation, 1783-1815. (3). [4641]. NOTE: Students who have received credit for HIST 4641 will not be allowed credit for HIST 4630. [2205-1]

4650-6650. The Civil War. (3). [4642]. NOTE: Students who have received credit for HIST 4640 will not be allowed credit for HIST 4650. [2205-1]

4670-6670. Civil War and Reconstruction, 1850-1877. (3). [4643]. NOTE: Students who have received credit for HIST 4650 may not be allowed credit for HIST 4670. [2205-1]

4690-6690. Emergence of Modern America, 1877-1914. (3). United States from end of Reconstruction to outbreak of World War I. [2205-1]

4701-6701. The United States, 1914 to the Second World War. (3). United States from outbreak of World War I to World War II. [2205-1]

4702-6702. United States from the Second World War. (3). United States from end of World War II to present. [2205-1]

4811. United States Military and National Guard. (3). Development since colonial period: emphasis on background and growth of national military and naval establishments, military and naval thought, difficulties accompanying modernization and assumption of global responsibilities, and problem of relationship between civilian and military/naval sectors in democracy. [2205-1]

4823-6823. American Labor History. (3). Historical development of labor movement in United States; emphasis on social, economic, and political trends related to labor movement. [2205-1]

4824-6824. Business History. (3). Historical development of business in the United States; attention to social, economic, and political trends related to American business communities. [2205-1]

4851-6851. History of Women in America. (3). Economic, political, social, and intellectual history of women in English and American history. [2205-1]

4871-6871. United States Urban History. (3). [3871]. Development of American cities, including formation of local social, economic, and political institutions, and impact of urbanization on United States. [2205-1]

4881-6881. Black American History. (3). Role of blacks in America from Jamestown to present. [2205-1]

4881-6881. History of the American Indian. (3). Role of Indian in American history. [2205-1]

4991. Honors Thesis. (3). Under the direction of a faculty member, and with approval of the Honors Committee, student writes thesis based on research in primary and/or secondary sources. PREREQUISITE: admission to the Honors Program. [2205-8]

Graduate Courses in History: For course descriptions and further details of the graduate program, see *The Bulletin of the Graduate School*.

MATHEMATICAL SCIENCES

PROFESSOR STANLEY FRANKLIN, Chairman

Room 373, Dunn Mathematics
Foreign Languages Building

The Department of Mathematical Sciences offers general courses in mathematics and specialized courses designed for students in all departments of the University, with specially designed programs for the principal divisions of the University. Courses which satisfy specific graduation requirements of the various colleges are listed in the following table. The degree requirements for the specific college are listed below.

The courses MATH 1000, 1100, 1211, and 1212 provide preparatory instruction, as needed, for required courses.

MATH 1000 provides remedial instruction in elementary algebra. MATH 1100 provides remedial instruction in intermediate Algebra. MATH 1211 prepares the student for either MATH 1203 or MATH 1211. MATH 1211 provides preparation for MATH 1212, and MATH 1212 provides preparation for MATH 1321.

A placement test is recommended for students who plan to register in any of the courses MATH 1203, 1211, 1212, or 1321. Registered students taking the placement examination

may take it for credit by making written application to the chairman of the department and paying the appropriate fees for such credits to be recorded, prior to the exam.

Students may take courses in the mathematical sciences after obtaining permission of the department chairman and paying the appropriate fees. A form for this purpose is available in the office of the department chairman.

NOTE: A student who wishes to take a course without having had all of its prerequisites must obtain permission of the instructor and of the Chairman of the Department of Mathematical Sciences.

1020 MATHEMATICS (MATH)

1000. Basic Mathematics. (3). Signed numbers; order of operations; variables; first degree equations; products and factors of polynomials; basic operations with algebraic fractions; ratio and proportion; percentages; equations in two variables; radical expressions. RESTRICTION: This course does not satisfy any mathematics requirement for any degree. It is offered solely as preparation for MATH 1000 and 1100. Note: No more than three credits in MATH 1000 and 1100 may be applied toward any degree program. [1701-1]

1100. Intermediate Algebra. (3). Set notation; first degree inequalities; absolute value equations and inequalities; operations on polynomials; operations on rational expressions; integral, fractional and negative exponents; operations involving rational expressions; complex numbers; quadratic equations; systems of linear equations; determinants. RESTRICTION: This course satisfies no mathematics requirement for any degree. It is offered solely as preparation for MATH 1000 and 1100. Note: No more than three credits in MATH 1000 and 1100 may be applied toward any degree program. [1701-1]

1181. Concepts of Number. (3). Introduction to logic; elements of set theory; systems of numeration; the real number system; arithmetic; logic and mathematical sentences. [1701-1]

1182. Concepts of Algebra. (3). Relations and functions; equations; exponents; polynomials; applications. PREREQUISITE: MATH 1181. [1701-1]

1200. Nuclear Reactor Mathematics. (3). Review of number systems; topics in algebra including solving first degree equations; factoring; logarithms; exponential functions; operations involving logarithms and graphs. Includes applications in elementary probability; descriptive statistics. [1701-1]

1203. College Algebra With Business Applications. (3). Basic algebraic techniques; applications to economic and business problems. Development of conceptual understanding and practical applications; linear equations, inequalities, systems, and matrices. Uses of algebra and finite mathematics in economics, finance, marketing and production. NOTE: Only one of the courses MATH 1203 or MATH 1211 can be used to satisfy degree requirements. MATH 1203 or MATH 1211 is the test recommended, but not required; MATH 1100 or its equivalent. [1701-1]

1211. College Algebra. (3). Inequalities; quadratic equations, relations and functions; absolute value; exponential and logarithmic functions; systems of equations; linear and quadratic inequalities; complex numbers; roots of polynomials; sequences and series; binomial expansion. NOTE: Only one of the courses MATH 1203 or MATH 1211 can be used to satisfy degree requirements. PREREQUISITE: Placement test recommended but not required; MATH 1100 or its equivalent. [1701-1]

1212. Trigonometry. (3). Circular functions; inverse circular functions; graphs of circular and inverse functions; identities; equations; angles; trigonometric functions; solution of triangles; elements of trigonometry; application of trigonometry in terms of numbers. PREREQUISITE: placement test recommended but not required; MATH 1203 or 1211. [1701-1]

1213. College Algebra and Trigonometry. (3). Exponents; radicals; quadratic functions; inequalities; relations and functions; inverse, exponential and logarithmic functions; solution of triangles; elements of trigonometry; trigonometric functions; identities; equations and graphs; angle measurements; sum, difference, half-angle and double-angle formulas; solution of triangles; complex numbers. [1701-1]

1212. Elementary Calculus I. (3). An introduction to concepts and methods of elementary calculus of one real variable as related to rational, exponential, and logarithmic functions; nature of derivatives; differentiation; application of derivative; nature of integration; definite integral; applications of definite integral. NOTE: Only one of the courses MATH 1202 or 1212 can be used to satisfy degree requirements. PREREQUISITE: Placement test recommended but not required; MATH 1203 or 1211. [1701-1]

1321. Analytic Geometry and Calculus. (4). Essentials of analytic geometry of the plane; the calculus of one real variable; differential and integral calculus; applications of derivatives; definite integral; applications of definite integral. NOTE: Only one of the courses MATH 1202 or 1212 can be used to satisfy degree requirements. PREREQUISITES: MATH 1202, 1203 or 1211. [1701-1]

1401. Honors Calculus I. (4). Concepts and applications of differential and integral calculus as presented from theoretical point of view. NOTE: Students may not receive credit for both MATH 1401 and 1211. PREREQUISITE: Permission of Honors Committee. [1701-1]

1402. Honors Calculus II. (4). NOTE: Students may not receive credit for both MATH 1402 and 2301. PREREQUISITE: Permission of Honors Committee. [1701-1]

1711. Selected Topics in Mathematics. (1-5). Prescribed subject matter in mathematics not specifically covered elsewhere in curriculum. Repeatable by permission of department chairman. PREREQUISITE: permission of instructor. [1701-1]

2291. Mathematics of Finance. (3). Compound interest and annuities with applications; introduction to mathematics of life insurance. PREREQUISITE: MATH 1203 or 1211. [1701-1]

2321. Analytic Geometry and Calculus. (4). Differentiation, integration and analytical aspects of elementary transcendental functions; techniques of integration; limits and continuity; applications of definite integral; polar coordinates. **NOTE:** Students may not receive credit for both MATH 2321 and 1405. **PREREQUISITES:** MATH 1321, 1322, 1323.

2322. Advanced Geometry and Calculus. (4). Indeterminate forms; improper integrals; vectors and analytic geometry in 3-space; partial differentiation; multiple integrals; infinite series. **PREREQUISITE:** MATH 2321, [1701-1].

2401. Honors Mathematics III. (4). Introductory point set topology, elements of abstract algebra. **PREREQUISITES:** MATH 1402 and permission of Honors Committee. [1701-1].

2402. Honors Mathematics IV. (4). Topics in abstract algebra and real analysis. **PREREQUISITES:** MATH 2401 and permission of Honors Committee. [1701-1].

2581. Concepts of Geometry. (3). Introduction to idea of proof in postulational system; development of geometric relationships independent of number, including congruent triangles, similar triangles, and theorems of Euclidean geometry; number of number in geometry including coordinate geometry, lengths, areas, and volumes. **PREREQUISITE:** MATH 1182. [1701-1].

2701. Discrete Structures. (3). Elementary logic; sets, relations, functions, orderings, equivalence relations; partitions; finite sets; modular arithmetic; natural numbers; mathematical induction; recursive structures; graphs, structures connectedness; traversals; graph algorithms.

3241. Matrix Theory. (3). Matrix algebra; elementary operations; equivalence; determinants; similarity; polynomial matrices; matrix analysis; applications. **PREREQUISITE:** MATH 1312 or 1321. [1701-1].

3391. Differential Equations. (3). Ordinary differential equations involving series solutions. **PREREQUISITE:** MATH 2322. [1703-1].

4151-6151. History of Mathematics. (3). Development of mathematics from earliest times to present; problem studies; parallel reading and class reports. **PREREQUISITE:** MATH 1323 or equivalent. [1701-1].

4171-6171. Special Problems in Mathematics. (1-3). Directed individual study in selected area of mathematics chosen in consultation with instructor. Repeatable by permission of chairman. **PREREQUISITE:** permission of instructor. [1701-8].

4241-6241. Linear Algebra. (3). Systems of linear equations; matrices and elementary row operations; vector spaces and subspaces; linear projective row and column transformations; linear functionals; annihilators; polynomials. **PREREQUISITE:** MATH 2321 or permission of instructor. [1701-1].

4261-6261. Abstract Algebra. (3). Groups; homomorphisms; rings; integral domains; polynomials; fields. **PREREQUISITE:** MATH 4241 or permission of instructor. [1701-1].

4350-6350. Advanced Calculus. (3). (3111). Real number system; sequences and series; functions; continuity; differentiation; Riemann-Stieltjes integration; series of functions. **PREREQUISITE:** MATH 2322. [1701-1].

4351-6351. Advanced Calculus. (3). Integration theory; Riemann and Lebesgue integrals; partial differential equations; implicit function theorem. **PREREQUISITE:** MATH 4350 or permission of instructor. [1701-1].

4361-6361. Complex Variables. (3). Complex numbers; analytic functions; Cauchy-Riemann conditions; Taylor and Laurent series; integration. **PREREQUISITE:** MATH 2322. [1701-1].

4391-6391. Applied Mathematics. (3). Laplace transforms; Fourier series; introduction to partial differential equations. **PREREQUISITE:** MATH 3391. [1703-1].

4392-6392. Applied Mathematics. (3). Partial differential equations. **PREREQUISITE:** MATH 3391. [1703-1].

4402. Senior Honors Seminar. (3). In-depth study of one or more topics in mathematical sciences; emphasis on individual research and problem solving techniques; student writes and presents an Honors Thesis. **PREREQUISITE:** Open only to senior Honors Students in mathematical sciences with permission of instructor. [1701-8].

4411-6411. Topology. (3). Introductory set theory; metric spaces; topological spaces; continuous functions; separation axioms; separability and countability axioms; connectedness; and compactness. **PREREQUISITE:** MATH 4350 or 4241 or permission of instructor. [1701-1].

4718-6713. Numerical Computer Methods. (3). Methods of numerical computation; interpolations; numerical differentiation and integration; solution of algebraic and transcendental equations; inversion of larger matrices; determination of proper vectors; and proper values; methods of differential and integral equations; solution of error and error control. **PREREQUISITE:** MATH 4710 or equivalent. [0701-1].

4721-6721. Numerical Analysis I. (3). Derivation and application of computer-oriented, numerical methods for functional approximation; differentiation; quadrature, and solution of ordinary differential equations. **PREREQUISITE:** MATH 2321 and 4710 or equivalents. [1703-1].

4723-6723. Numerical Analysis II. (3). Numerical methods for solving applied problems from calculus and differential equations. **PREREQUISITES:** MATH 2321 and 4710 or equivalents. [1703-1].

4741-6741. Linear Programming Methods. (3). Theory of linear programming methods; problem formulation; convex sets; simplex and revised simplex methods; matrix games and linear programming. **PREREQUISITES:** MATH 3241 and 4710 or equivalents. [1703-1].

E285 COMPUTER SCIENCE (COMP)

1000. Computer Programming I. (3). Principles of computer programming; expression of and documentation of design specifications; algorithmic problem solving; stepwise refinement; storage variables and structures; assignments; primitive operations; and branching; coding in a high-level programming language: data typing; standard procedures; subprograms and parameters; control structures, and I/O. Note: Non-computer majors should elect COMP 4040. **PREREQUISITE:** MATH 1321.

functions, subprograms, and parameters; control structures, and I/O. Note: Non-computer majors should elect COMP 4040. **PREREQUISITE:** MATH 1321.

2010. Computer Programming II. (3). Further principles of computer programming style, expression, and documentation; design of algorithms; analysis of algorithms, and coding in a high-level language; program structures, correctness, and efficiency; program documentation; and documentation. **PREREQUISITES:** COMP 1000, MATH 2300. **PREREQUISITE:** MATH 2300.

3230. Assembly Language Programming. (3). (MATH 4711). Computer machine language; opcodes; addressing modes; arithmetic and logic; program control; interrupts; symbolic coding and assembly systems; labels, memory, expressions; subroutines; assembly language; processor assembly; memory design; coding, testing, tracing, and debugging; advanced assembler features; partial assembly; program segmentation, loading, and linking; macro instructions. **PREREQUISITE:** COMP 1000.

3420. Computer Organization. (3). Binary signals, combinational and sequential logic networks; computer structure, memory, control, processing, and I/O units; bus-structure systems; fetch-execute cycle; timing; principal instructions and types; execution; addressing and accessing techniques; memory; cache; memory management; memory decoders; and code conversion. **PREREQUISITE:** COMP 1000.

4001-6001. Computer Programming. (3). (MATH 4710). Algorithmic problem solving; formalization of algorithms; stepwise refinement; the BASIC and FORTRAN programming languages; data structures; data types; symbolic expressions; assignments; statements; arithmetic expressions; branching; iteration; subprograms and parameters; I/O; string manipulation; programming style. **NOTE:** Computer Science majors may not use COMP 4001 to fulfill degree requirements. Credit for either COMP 1000 or COMP 4001 precludes credit for COMP 4002. **PREREQUISITE:** MATH 1321.

4002-6002. Accelerated Computer Programming. (3). Principles of computer programming style, expression, and documentation; design specifications; algorithmic problem solving; symbolic coding and assembly systems; data structures; data types; and memory management; primitive operations; and branching; coding in a high-level programming language; data typing; standard procedures; and functions; subprograms and parameters; and pointers; computer structures; and I/O; program structures; and connections; test; memory; cache; memory management; memory decoders; and code conversion. **PREREQUISITE:** MATH 4001 or equivalent. [1703-1].

4003-6003. Computer Organization and Assembly Language Programming. (3). Binary signals; combinatorial and sequential logic networks; computer structure, memory, control, processing, and I/O units; instruction types; execution; Computer machine language; symbolic coding and assembly systems; data structures; data types; and memory management. **NOTE:** Computer Science majors may not use COMP 4003 to fulfill degree requirements. Credit for either COMP 3230 or COMP 4003 precludes credit for COMP 4003. **PREREQUISITE:** MATH 1321.

4003-6003. Computer Organization and Assembly Language Programming. (3). Binary signals; combinatorial and sequential logic networks; computer structure, memory, control, processing, and I/O units; instruction types; execution; Computer machine language; symbolic coding and assembly systems; data structures; data types; and memory management. **NOTE:** Computer Science majors may not use COMP 4003 to fulfill degree requirements. Credit for either COMP 3230 or COMP 4003 precludes credit for COMP 4003. **PREREQUISITE:** MATH 1321.

4040-6040. Programming Languages. (3). (MATH 4769). Comparative features, syntax, and applicability of high-level programming languages such as BASIC, FORTRAN, COBOL, ALGOL, SNOBOL, C, and PASCAL, and data structures, control structures and dataflow; procedures, recursion, runtime environments; memory manipulation; list processing; memory addressing; documentation; programming style. **PREREQUISITES:** COMP 4000.

4041-6041. Introduction to Compilers. (3). Finite state recognizers; lexical scanners; symbol tables; context-free languages; and context-sensitive languages; compiler design; grammars; and other such as recursive descent; LR(k), precedence, LR(k), SLR(k), language translation; generation and improvement of machine independent codes; inherited and synthesized attributes; syntax-directed translation schema. **PREREQUISITES:** COMP 4000.

4081-6081. Software Development. (3-6). Program design methodologies; formal methods; dataflow diagrams; strength and coupling measures; programmer teams; organization, and management; scheduling and estimating; walk-throughs; program reviews and documentation; testing; requirements management; and development of a large-scale software project. May be repeated for a maximum of 6 hours. **PREREQUISITES:** COMP 4040, 4150.

4150-6150. Information Structures. (3). (MATH 4765). Computer data structures including stacks, queues, lists, arrays, trees, and graphs; memory management; and memory mapping; sequential and linked storage; basic algorithms over data structures; hash tables; sorting, searching, and merging techniques; dynamic storage allocation; coding of data structure algorithms. **PREREQUISITES:** COMP 1000, 3230.

4160-6160. Data Processing. (3). Computer of record, file processing; blocking; connection; database; sequential bulk storage devices; external sort/merge algorithms; algorithms for updating sequential files; linked lists; file-oriented tree structures; traversing and balancing trees; network concepts; random access; and memory management; algorithms for storage of inverted files; multilists; indexed sequences; and hierarchical structures; file I/O. **PREREQUISITE:** COMP 4150.

4242-6242. Introduction to Computer Graphics. (3). Characteristics of graphics I/O devices; 2D pictures; scaling, transformation, rotation, and skewing; drawing; histograms; simple; maps; block diagrams; and flowcharts; curves; polygons; quantization; and interpolation; plotting; equations; 3D pictures; scaling; translation; rotation; and projections; hidden line removal; non-Euclidean geometry; animation. **PREREQUISITES:** COMP 1000, 2010, 3230.

4270-6270. Introduction to Operating Systems. (3). Hierarchy of storage devices; I/O buffering; interrupts; channels; multiprogramming; processor and job scheduling; memory management; paging, segmentation, and virtual memory; management of asynchronous processes; interrupt processing; deadlocks; process stateword and automatic switch instructions; semaphores; concurrency; security and recovery procedures. **PREREQUISITES:** COMP 4040, 4150.

Mathematical Sciences - Philosophy

date calls; process stateword and automatic switch instructions; semaphores; concurrency; security and recovery procedures. **PREREQUISITES:** COMP 4040, 4150.

4601-6601. Introduction to Automata. (3). Formal languages; finite automata and regular expressions; regular set grammar; finite automaton minimization; context-free grammars; ambiguity; Chomsky and Greibach normal forms; pushdown automaton; Turing machines; universal and recursive problems; elementary recursive function theory; the Chomsky hierarchy of languages. **PREREQUISITE:** COMP 2010.

4715-6715. Artificial Intelligence. (3). (MATH 4751). Self-organizing systems; rule theory; rule, rule induction; decision theory; pattern recognition; problem non-monotonicity; training methods for developing pattern classifiers; problem solving; heuristic programming and problem reduction search methods. **PREREQUISITE:** COMP 2010.

4901-6901. Topics in Mathematics. (3). (MATH 4791). Directed and self-study of selected areas of computer science. May be repeated by permission for a maximum of 6 hours. **PREREQUISITE:** permission of instructor.

STATISTICS (MATH)

2611. Elementary Statistics. (3). Basic statistical concepts; elementary probability; the normal curve; current applications; linear regression; and product correlation; statistical inference. **PREREQUISITE:** MATH 1100 or equivalent. [1702-1].

4611-6611. Statistical Methods. (3). Binomial, hypergeometric, Poisson, multinomial and normal distributions; test of hypothesis; chi-square test; t-test, F-test, etc.; non parametric tests; correlation; regression; Neyman-Pearson Lemma; likelihood ratio tests; sufficiency; point estimations. **PREREQUISITE:** MATH 2321. [1702-1].

4612-6612. Statistical Methods II. (3). Introduction to analysis of variance, regression and analysis of covariance. **PREREQUISITE:** MATH 4611. [1702-1].

4613-6613. Introductory Statistical Theory. (3). Distributions of functions of random variables; distributions of statistics; correlation and regression; Neyman-Pearson Lemma; likelihood ratio tests; sufficiency; point estimations. **PREREQUISITE:** MATH 2321. [1702-1].

4631-6631. Probability. (3). Basic concepts in probability; probability distributions; applications; random variables in mathematics at level of MATH 1211 or above. [1702-1].

4671-6671. Topics in Statistics. (1-3). Recent developments in statistical methods and applications. **PREREQUISITE:** permission of instructor. [1702-1].

Graduate courses in Mathematics: For course descriptions and further details of the graduate program, see the Bulletin of The Graduate School.

PHILOSOPHY

ASSOCIATE PROFESSOR
NORMAN C. GILLIESPIE,
Chairman

Room 321, Clement Hall

DR. H. ROKE ROBINSON,
Coordinator of
Undergraduate Studies

Room 314, Clement Hall

Either PHIL 1111 or PHIL 1611 may be taken first.

E3300 PHILOSOPHY (PHIL)

1111. Introduction to Philosophy. (3). Introduction to philosophy through problems arising from man's reflection on nature of world and his place and conduct in it. Readings from classical and contemporary sources. [1509-1].

1611. Practical Logic. (3). Introduction to formal and informal reasoning that emphasizes logic as practical method for problem solving. [1509-1].

3001. Foundations of Western Philosophy: Classical Period. (3). Introduction to history of philosophy from 7th century B.C. through early Middle Ages structured around major themes of the period. Readings from classical and nonclassical sources in which they arose and to which they contributed. Readings from philosophical and nonphilosophical sources. [1509-1].

3002. Foundations of Western Philosophy: Modern Period. (3). Introduction to history of philosophy from 16th century through 19th century structured around major themes that shaped the modern period; attention to cultural and historical setting in which they arose and to which they contributed. Readings from philosophical and nonphilosophical sources. **NOTE:** This is the continuation of PHIL 3001, it may be taken separately. [1509-1].

3402. American Philosophy. (3). Development of philosophy in America. [1509-1].

3411. Contemporary Moral Problems. (3). Such important contemporary issues as abortion, human rights, "reverse discrimination," and civil disobedience. Underlying philosophical ideas for each issue considered and discussed. [1509-1].

3451. Existentialism. (3). Historical and comparative study of different existentialists and their relation to literature, art, and psychology. Readings from Kierkegaard, Nietzsche, Heidegger, Sartre, and Marcel. [1509-1].

3511. Ethics. (3). Critical analysis of ethical theories and their application to problems of individual in society. **PREREQUISITE:** one course in philosophy or permission of instructor. [1509-1].

3512. Science, Technology and Human Values. (3). Ethical problems growing out of development of modern science and technology, of such issues as relation of science to society, dehumanization of individual, impact of technology on environment, modern warfare, etc. Specific content of course may vary from year to year.

3514. Biomedical Ethics. (3). Discussion of ethical problems raised by contemporary medical practices and biological innovations from standpoint of contemporary ethical theories including abortion, euthanasia, behavior modification, human experimentation and genetic engineering. [1509-11]

3621. Intermediate Logic. (3). Symbolic logic, including propositional, categorical, modal, temporal and related topics. PREREQUISITE: PHIL 1611 or permission of instructor. [1509-11]

3661. The Development of Scientific Thought. (3). Historical introduction to science as a discipline, with selected readings from both ancient and modern scientists and philosophers of science. PREREQUISITE: one course in philosophy or major in natural or mathematical sciences. [1509-11]

3662. Philosophy of Science. (3). Basic features of science. Detailed analysis of problems of scientific procedure, theory construction and verification both in physical and social sciences. PREREQUISITE: PHIL 1611 or 3661 or permission of instructor. [1509-11]

3701. God and Man. (3). Major religious movements of Western world with regard to their origins, doctrines and philosophical significance. Attention to contrasting conceptions of natural and supernatural order, and their influence in man's understanding of himself and his society. [1509-11]

3711. Philosophy of Religion. (3). Philosophical issues raised by religious experience including classical and contemporary arguments for and against existence of God, meaningfulness of religious language, and concepts of faith, evil and immortality. PREREQUISITE: PHIL 1111 or permission of instructor. [1509-11]

3721. Oriental Philosophy. (3). Philosophies of India, China, Japan, with readings from primary sources of Hinduism, Jainism, Buddhism, Confucianism, Taoism, and Shintoism. [1509-11]

3771. Philosophy in Literature. (3). Expression of philosophical ideas in literature by philosophers, playwrights, novelists and poets. [1509-11]

3800. Philosophy Honors Seminar. (3). Open to all students in the Honors Program and recommended for those students working towards Honors in philosophy. Specific content will vary from year to year. PREREQUISITE: Admission to Honors Program and enrollment in philosophy. [1509-11]

4211-6211. History of Ancient Philosophy. (3). (3211). Selected readings from primary sources, supplemented by commentary from antiquity and modern scholarship, including Pre-Socratics, Plato, Aristotle, and Hellenistic period. PREREQUISITE: PHIL 3001 or permission of instructor. [1509-11]

4211-6311. History of Modern Philosophy. (3). (3311). Critical study of major philosophers of 17th and 18th century with special attention to metaphysical and epistemological issues that divided Rationalism and Empiricism. Readings from Descartes, Spinoza, Leibniz, Locke, Berkeley, Hume, and Kant. PREREQUISITE: PHIL 3002 or permission of instructor. [1509-11]

4372-6372. Kant. (3). Intensive study of major philosophical works of Immanuel Kant; emphasis on *The Critique of Pure Reason* and *Practical Philosophy*; Kant's critical philosophy, aesthetics, and philosophy of religion. PREREQUISITE: PHIL 3001 or 4311 or permission of instructor. [1509-11]

4422-6422. Recent Anglo American Philosophy. (3). Major developments in philosophy in England and United States from 19th century to present, reading from such philosophers as Robert Boyle, John Locke, Berkeley, Hume, Kant, Hegel, Quine and other contemporary authors. PREREQUISITE: PHIL 3002 or 4311 or permission of instructor. [1509-11]

4460-6440. Philosophy of the Nineteenth Century. (3). (3372). Extensive reading in representative 19th century philosophical sources from Fichte to Nietzsche, attention to German Idealism (especially Hegel), Marx, Kierkegaard, and right wing Hegelianism, Marx, Kierkegaard (Nietzsche) as well as utilitarianism, Darwinism, and rise of positivism. PREREQUISITE: PHIL 3002 or 4311 or permission of instructor. [1509-11]

4411-6411. Recent Continental Philosophy. (3). Major figures in 20th Century European Thought. Such movements as phenomenology, existentialism, structuralism and hermeneutics.

4513-6513. Business and Professional Ethics. (3). Practices and ethics of business, law, government, social work, and other professions from standpoint of contemporary ethical theory. [1509-11]

4511-6511. Social and Political Philosophy. (3). (3351). Major philosophical theories of man and the state, emphasis on concepts of society, culture, institutions, government, law, property, rights, and obligation. Selected readings. PREREQUISITE: one course in philosophy or permission of instructor. [1509-11]

4551-6551. Social and Political Philosophy. (3). (3351). Major philosophical theories of man and the state, emphasis on concepts of society, culture, institutions, government, law, property, rights, and obligation. Selected readings. PREREQUISITE: one course in philosophy or permission of instructor. [1509-11]

4552-6552. Marx. (3). Critical study of philosophy of Karl Marx, including the Manifesto, Capital and subsequent philosophical and historical developments.

4562-6632. Advanced Logic. (3). Nature of axiomatic systems, techniques of formalization, and logical foundations of mathematics. PREREQUISITE: PHIL 3621 or permission of instructor. [1509-11]

4761-6761. The Philosophy of Art. (3). (3761). Role of philosophical ideas in artistic creation and experience and their expression in painting, sculpture, music and other art forms. PREREQUISITE: PHIL 1111 or permission of instructor. [1509-11]

4801-6801. Systematic Topics in Philosophy. (3). Epistemology, metaphysics, philosophy of language, philosophy of mind, logical theory, and axiology. Area to be covered appears in Schedule of Classes whenever it is taught. May be repeated for maximum of 15 hours credit. May be changing an earlier grade after first three credits. PREREQUISITE: one or two courses in philosophy or permission of instructor. [1509-11]

4891. Senior Honors Thesis. (3). Directed reading and research culminating in a Senior Thesis. Thesis topic to be selected by student with approval of thesis director before selected student may take 15 hours credit. Open only to senior honors students in philosophy. May be repeated in successive semesters for up to 6 hours credit. [1509-11]

Graduate courses in Philosophy. For course descriptions and further details of the graduate program, see the Bulletin of The Graduate School.

PHYSICS

PROFESSOR CECIL G. SHUGART, Chairman

Room 216, Manning Hall

350 PHYSICS (PHYS)

1111. Foundations of Physics. (3). Certain basic principles of science, particular stress on mechanics, designed for student who has had no previous training in physics. Two lecture, two laboratory hours per week. Credit will not apply toward major or minor in physics, chemistry or physical science. PREREQUISITE: high school algebra and science requirements in professional curriculum. [1902-11]

1112. Foundations of Physics. (3). Continuation of PHYS 1111. Two lecture, two laboratory hours per week. Credit will not apply to major or minor in physics, chemistry or physical science, nor will it satisfy part of science requirement in professional curriculum. [1902-11]

1111. General Astronomy. (3). Practical astronomy and solar system. Includes motions of earth and moon, apparent motions of stars and planets, eclipses, tides and calendar, properties of bodies in solar system. Occasional observation during the night. Two lecture, two laboratory hours per week [1911-12]

1112. General Astronomy. (3). Survey of stellar and galactic astronomy. Includes stellar distances and properties, interstellar matter, multiple stars, clusters, milky way and other galaxies. Occasional observation periods at night. Two lecture, two laboratory hours per week [1911-12]

1111. General Physics. (4). Mechanics, heat, sound, required of all technology, premedical, pre-dental, and pre-pharmacy students. Three lecture, two laboratory hours per week PREREQUISITE: MATH 1212. [1902-11]

1112. General Physics. (4). Continuation of PHYS 1111; includes magnetism, electricity, light, and modern physics. Two lecture, two laboratory hours per week. PREREQUISITE: PHYS 1111. [1902-11]

2111. Physics for Science and Engineering. (4). Primarily for students intending to major in physics, chemistry, or mathematics; required of all students in engineering curriculum and for students in science who desire to take physics in secondary schools. Three lecture, two laboratory hours per week PREREQUISITE: MATH 1321. [1902-11]

2112. Physics for Science and Engineering. (4). Continuation of PHYS 2111. Three lecture, two laboratory hours per week. PREREQUISITE: PHYS 2111. [1902-11]

3000. Special Topics in Applied Physics. (3). Applied areas of physics including acoustics, optics, and radiation. Experiments and projects of special interest to student. Three lecture hours or the equivalent laboratory hours per week. This course may not be counted toward a major in physics. [1902-11]

3010. Introduction to Modern Physics. (3). Principles of quantum mechanics and atomic physics; selected topics in solid state, nuclear and molecular physics. Three lecture hours per week [1902-11]

3020. Biophysics. (3). Selected topics from biophysics; with emphasis on understanding of basic physical principles and their relation to living systems. Three lecture hours or the equivalent laboratory hours per week. [0415-11]

3111. Mechanics. (3). Continuation of PHYS 3111. Three lecture hours or the equivalent laboratory hours per week. [1902-11]

3211. Electricity and Magnetism. (3). Electromagnetic fields and waves, including such topics as dielectric induced electromotive force, magnetic energy, magnetic materials, Maxwell's equations, and reflection and refraction. Three lecture hours per week. [1902-11]

3222. Electricity and Magnetism. (3). Continuation of PHYS 3211. Three lecture hours per week. PREREQUISITE: PHYS 3211. [1902-11]

3510. Electronics. (4). Theory and application of electronic devices; emphasis on scientific instrumentation. Laboratory oriented course including basic semiconductors, integrated circuits, and microprocessors. Three lecture, three laboratory hours per week. PREREQUISITE: PHYS 2512 or 2112 or equivalent [1902-11]

3610. Experimental Techniques. (1). Introduction to independent experimentation including shop practices, glass blowing, and preparation of experimental data for computers. Some experiments of traditional nature related to physics courses. Three laboratory hours per week. PREREQUISITE: junior status and permission of instructor. [1902-11]

3611. Experimental Techniques. (1). Continuation of PHYS 3610. Three laboratory hours per week. [1902-11]

3701. Physics of Fluids. (3). Thermodynamic relationships describing behavior and flow of fluids under single- and two-phase conditions, application to nuclear power plants. PREREQUISITES: MATH 2321, PHYS 2512 [1902-11]

3702. Nuclear Heat Mechanics. (3). Heat transfer mechanisms and application to nuclear power plant reactor cores, heat exchangers, steam generators, condensers, etc. PREREQUISITES: MATH 2321, PHYS 2512 [1902-11]

4010. Advanced Experimental Physics. (1). Advanced classical and modern laboratory experiments, emphasis on effectiveness and performance of experiments with appropriate interpretation of data. Three laboratory hours per week [1902-11]

4011. Advanced Experimental Physics. (1). Continuation of PHYS 4010. Three laboratory hours per week. [1902-11]

4012. Applied Radiation Physics. (3). Applied radiation and radiation protection. Experiments emphasize measurement and radiation interaction with matter, and biological effects. Radiation safety aspects emphasized. Three lecture hours per week. PREREQUISITE: PHYS 2112 or 2512 and MATH 1321. [1902-11]

4013. Applied Radiation Physics. (3). Continuation of PHYS 4012. Three lecture hours per week. PREREQUISITE: PHYS 4012. [1902-11]

4030. Radiation Physics Laboratory. (3). Radiation and radioactivity. Experiments emphasize measurement and characterization of radiation and radioactive materials. Four laboratory hours per week. PREREQUISITE: PHYS 4021. [1902-11]

4051-6051. Astrophysics. (3). Application of radiation laws to interpretation of stellar structure. Introduction to radiative transfer, strengths. Spectral and luminosity classification of stars. Stellar populations and evolution. Three lecture hours per week. [1912-13]

4110-6110. Nuclear Physics. (3). Properties of atomic nuclei, radioactive transitions, alpha, beta, and gamma decay. Binding energy, nuclear forces and nuclear models. Three lecture hours per week. [1902-11]

4110-6111. Optics. (3). Brief review of geometrical optics; concentration on wave optics. Includes polarization phenomena, interference, diffraction, coherence, holography, and scattering. Three lecture hours per week. [1902-11]

4201. Relativity Physics. (3). Theory and application of nuclear energy source, particle source, large particle accelerators, including fundamental concepts of physics applied to production and control of nuclear chain reactions. Three lecture hours per week. PREREQUISITES: PHYS 2111 and 2112 or the equivalent. [1902-11]

4211. Advanced Reactor Physics. (3). Continuation of reactor physics; emphasis on reactor design parameters. PREREQUISITES: MATH 2321, PHYS 4220. [1904-11]

4410-6410. Introduction to Quantum Theory. (3). Experimental basis of quantum theory; development of Schrodinger equation and its solution of simple systems; selected applications in atomic and molecular structure. Three lecture hours per week. [1902-11]

4510-6510. Thermodynamics. (3). Mathematical treatment of thermodynamics, including such topics as work, energy, entropy, entropy, reversibility and irreversible processes, equilibrium, and phase and phase transitions. Three lecture hours per week. [1902-11]

4610-6610. Solid State Physics. (3). Such topics as lattice vibrations, specific heats, electrical and thermal conductors in solids, magnetism. Three lecture hours per week. [1902-11]

4710. Spectroscopy. (3). Basic principles of spectroscopic techniques; interpretation of various fields of spectroscopy. Included are considerations of infrared, ultraviolet, microwave, Raman, and magnetic resonance spectroscopy. Three lecture hours per week. [1902-11]

4810. Theoretical Physics. (3). Special mathematical techniques in mechanics, quantum mechanics, statistical mechanics. Emphasis on solution of wave equations, boundary value problems, eigenvalue problems, and Fourier series. Three lecture hours per week. PREREQUISITE: PHYS 2512. [1902-11]

4910. Seminar. (1). Special projects, reports and investigations current literature and research. May be repeated for maximum of 2 semester hours credit. PREREQUISITE: permission of instructor. [1902-11]

Graduate courses in Physics. For course descriptions and further details of the graduate program, see the Bulletin of The Graduate School

POLITICAL SCIENCE

PROFESSOR H. PIERRE SECHER, Chairman

Room 427, Clement Humanities Building

The political science areas of study are indicated by the second digit of the course number: General + 1, American Government and Public Law + 2, Comparative Government + 3, Political Theory + 4, International Relations + 5, Public Administration + 6, and Special + 7 and 8

The prerequisite for all 4000 level courses is either junior standing or the permission of the Instructor.

E370 POLITICAL SCIENCE (POLS)

1100. American Government. (3). (2201-1). Origins of our system of government, framing of Constitution, principles underlying constitutional government, citizenship, civil rights, political institutions, national executive, congressional organization and functions, and judicial process. [2207-1]

1101. Basic Issues in Politics. (3). How people distribute power within society, the nature of conflict, and pursue goals within a political system. [2207-1]

2301. Comparative Politics. (3). Introduction to comparative study of politics with application to selected countries. [2207-1]

2501. International Politics. (3). Relationships among nations-state, their origins, forms, and development; emphasis on both domestic and external determinants of international politics. [2207-1]

3101. Political Inquiry. (3). Research process in political science; emphasizes skills common to all subfields of political science—familiarity with sources of data and documents, research design and general analytic skills. [2207-1]

3102. Politics and Politics. (3). Survey of role of religion and religious belief in politics. Emphasizes the role of religious institutions in international affairs and national politics and effects of religion on behavior and political beliefs. [2207-1]

3211. State and Local Governments. (3). Role of state governments in Federal System, political institutions, elections, organization and functions of state and local governments; emphasis on Tennessee government. [2207-1]

3213. Introduction to the Study of Public Policy. (3). Public policy formulation process and some of the major substantive areas of policy concern in America. Emphasis on framework for identifying and analyzing substantive public problems, policy making, and policy implementation. [2207-1]

3216. Political Parties. (3). Party political as process of government; emphasis on party organization, activities, nominating and campaign methods, voter participation, and two-party system. [2207-1]

3224. Urban Politics. (3). Functions and role of government in urban areas in context of urban politics and social, economic, and governmental problems of cities and suburbs. [2207-1]

3302. Western European Government and Politics. (3). Comparative study of selected political systems of Western European States. [2207-1]

3306. Latin American Government and Politics. (3). Forms of organization, functions and operations of government in Latin America. Emphasis on development of political institutions and present day trends. [2207-1]

3307. Government and Politics of South Asia. (3). Political institutions and governmental processes of selected South Asian states. [2207-1]

3309. Government and Politics of North Africa and Middle East. (3). Analysis of organization and functions of governments in area dominated by tenets of Islam, including examination of origin and development of Arab-Israeli conflict. [2207-1]

3401. Legal (Political) Thought: Classical. (3). Question of justice and its relation to law and politics. Emphasizes confrontation between classical and modern views

3402. Legal (Political) Thought: Modern. (3). Question of justice and its relation to law and politics. Emphasizes confrontation between early and recent modernity

3405. Introduction to Law and Jurisprudence. (3). Sources, functions and development of law. [2207-1]

3505. International Organizations. (3). Origins, structure, functions, and evolution of selected international organizations. The United Nations and/or regional and functional organizations serve as basic references. [2207-1]

3506. American Foreign Policy Process. (3). American foreign policy process; factors involved in developing and implementing policy. [2207-1]

3601. Public Administration. (3). Concepts and practices of organization and management in executive departments, national, state, and local, analysis of bureaucracy, administrative theory, budgeting, personnel, and administrative leadership. [2102-9]

3610. Personnel Management for the Fire Service. (3). Personnel practices and management procedures. Included are manpower planning, labor relations, recruitment, selection, testing, performance appraisals, classification, motivation, pay, and retirement. PREREQUISITE: admission restricted to students seeking BPS degree in Fire Administration or Fire Prevention Technology. [2102-9]

3611. Disaster and Fire Defense Planning. (3). Concepts and principles of risk assessment, reducing and eliminating risks, procedures and methods of structural, dramatic, and topographical variables to group fires, conflagrations, and natural disasters, pre and post occurrence factors, communications, planning, organizing, coordination, command, and logistics. PREREQUISITE: admission restricted to students seeking BPS degree in Fire Administration or Fire Prevention Technology. [2102-9]

3612. Fire Prevention Organization and Management. (3). Examines and evaluates techniques, procedures, programs and management of fire prevention functions. Includes and private fire prevention functions: assessors, permits, zoning, legal aspects, inspection, investigations, planning, arson and incendiary analysis. PREREQUISITE: admission restricted to students seeking BPS degree in Fire Administration or Fire Prevention Technology. [2102-9]

3613. Advanced Fire Administration. (3). Overview of organization and management in modern fire service. Includes management of equipment and personnel, fire department functions, planning, resource development, labor relations. PREREQUISITE: admission restricted to students seeking BPS degree in Fire Administration or Fire Prevention Technology. [2102-9]

4101-6101. Techniques of Political Analysis. (3). Introduction to analysis of quantitative data used to test hypotheses in fields of political science and public administration, including basic concepts of statistics, sampling, and regression. Particular attention to alternative measures of association and significance, regression, factor analysis, path analysis, and causal modelling. [2207-1]

4102-6102. Political Behavior. (3). Introduction to contributions of behavioral sciences to understanding of political system. Political behavior as manifested in formation of attitudes, public opinion, group organization, including behavior of political parties. [2207-1]

4211-6201. Constitutional Law: National Powers. (3). Relationships and controls of three branches and nature of division of power between nation and states; emphasis on role of Supreme Court as arbiter in constitutional system. [2207-1]

4212-6212. Constitutional Law: Civil Liberties. (3). Judicial interpretation of political and civil rights; emphasis on period since 1945. [2207-1]

4213-6213. Public Policy. (3). Selected public policy issues and politics in policy making process. [2207-1]

4214-6214. The Presidency and Executive Decision-making. (3). Presidential behavior as embodiment of personal, social and institutional forces. Attention to growth of presidency, development of procedures, and the role of the press, public and role of Congress in a democratic system. [2207-1]

4215-6215. Constitutional Policies and the Judicial Process. (3). Limits of political resources and power of judiciary. Primary attention to extent to which United States Supreme Court has obtained compliance with constitutional principles in conflict with other branches of the national government, the state governments, and public opinion. [2207-1]

4216-6216. Interest Groups in the American Political System. (3). Role and functions of interest groups in government with American political system. Group theory, tactics, and relations with various governmental institutions. [2207-1]

4217-6217. The Legislative Process. (3). Origins, organization, functions, and activities of modern legislature; lawmaking, supervising the administration, representing and informing people. [2207-1]

4218-6218. Opinion and Politics. (3). Formation, measurement and control of public opinion about political issues. Includes a public opinion poll of local community. [2207-1]

4221-6221. Urban Administration. (3). Politics, administration, and public policy in urban context. Focus on administrative aspects of selected governmental policy-making processes, including the role of politics in solving urban problems facing modern public administrators. [2102-1]

4224-6224. Urban Problems. (3). Selected problems in urban administration, politics, and policies. [2214-1]

4225-6225. The Courts and Urban Policy. (3). Courts as policy-makers in urban realm. How, why, and to what extent courts have become major participants in shaping of urban policies. Includes a comparison of judiciary to deal with these matters. [2207-1]

4230-6230. Legislative Internship. (3-12). Supervised internship working with Tennessee General Assembly or other legislative bodies to gain legislative program. Seminar required to earn credit and assignment of mentors with whom students are working. May be repeated for total of 12 credits. PREREQUISITE: permission of department. [2207-5]

4231. Administrative Internship. (3-12). Supervised internship working with administrative branches of national, state, or local governments. Seminars required to discuss and analyze administrative problems and areas of work. May be repeated for total of 12 credits. PREREQUISITE: permission of department. [2207-5]

4305-6305. Soviet Government and Politics. (3). Organization and functions of authoritarian state; emphasis on role of Central Committee, KGB, and secret police. [2207-1]

4306-6306. Contemporary Latin American Politics. (3). Contemporary problems in Latin American politics and inter-American relations. [2207-1]

4307-6307. Government and Politics of Communist China. (3). Institutions of government, political process, political elites, political parties and political socialization in Communist China. [2207-1]

4309-6309. Comparative Political Parties. (3). Political parties and party systems in selected countries. [2207-1]

4311-6311. Comparative Political Elites. (3). Role of political elites in selected political systems. [2207-1]

4313-6313. Comparative Public Policy. (3). Formation and implementation of major substantive areas of public policy in selected countries. [2207-1]

4399-6399. Field Studies Abroad. (1-6). Supervised field studies in selected foreign countries. May be repeated up to six hours. [2207-8]

4401-6401. Modern Political Ideologies. (3). Major ideologies affecting modern politics. Includes ideologies of democracy, communism, and fascism as well as capitalism and socialism; right and left; and ideologies of developing or "third" and "fourth world" nations. [2207-1]

4403-6403. Contemporary Protest Thought. (3). Political theories of recent and contemporary protest. Subject matter varies according to what currently excites political protest. Focus on how protest has been used to effect political change, protest on the left, the new right, women's liberation, ecology and energy, and consumer's movements. [2207-1]

4405-6405. American Political Thought. (3). Analysis of political thought in United States from colonial to present time; emphasis on relationship between political thought and political institutions of the country. [2207-1]

4407-6407. Black Political Thought. (3). Analytical survey of black political thought from colonial period to present. Emphasis upon recent and contemporary thought. [2207-1]

4409-6409. Marxism and Politics. (3). Impact of Marxism on political ideas, practices and movements throughout the world. [2207-1]

4501-6501. Contemporary Problems in International Politics. (3). Emphasis on major powers. [2210-1]

4502-6502. Soviet Foreign Policy. (3). Basic concepts of Soviet foreign policy; development and techniques; presents patterns of Soviet relations with key nations; major problems in international relations. [2207-1]

4504-6504. International Law. (3). Nature, scope, duties, rights, and evolutionary trends of international law. [2210-1]

4505-6505. Comparative Communist Systems. (3). Cross-national comparison of adaptation of ruling and non-ruling communists to different political environments. Includes examination of inter-party and intra-block relations. [2207-1]

4506-6506. Problems of American Foreign Policy. (3). American foreign policy problems taken from specific areas of issues of policy. [2207-1]

4508-6508. Theories and Concepts in International Politics. (3). Theoretical approaches to study of international politics. Attention to methodology, models, and international political simulation. [2207-1]

4509-6509. Comparative Foreign Policies. (3). Foreign policies of major actors (nation-states, groupings such as OPEC, and other entities) in world politics. [2207-1]

4602-6602. Public Finance Administration. (3). Detailed study of administrative and political problems of fiscal policy, budgetary process, and fiscal controls. [2102-1]

4603-6603. Public Personnel Administration. (3). Policies, methods and techniques utilized in public personnel administration. Attention to problems of reflecting contemporary demands upon personnel organizations. Capacity to analyze problems, select most effective means of dealing with them, and appropriate courses of action through case example. [2102-1]

4604-6604. Problems of Public Administration. (3). Problems in public administration process; emphasis on contemporary developments. [2102-1]

4605-6605. Program and Policy Evaluation. (3). Models, theories and techniques of program and policy evaluation in public administration; emphasis on research design, data collection and analysis, dissemination of results, possible applications of evaluations to policy making and administration, and organizational and political contexts of evaluation. [2102-1]

4611-6611. Administrative Law. (3). Role and nature of administrative law, including procedural requirements and judicial review of administrative actions and liability of government for torts and breach of contract. [2207-1]

4613-6613. Comparative Administration. (3). Investigation of administrative systems and organizations in selected developed and developing nations. [2207-1]

4625-6625. Intergovernmental Relations in the United States. (3). Interdependencies and relations between governmental structures and organizations in American government; emphasis on problems of central and state governments. [2207-1]

4701. Senior Seminar in Political Science. (3). Review of professional literature generally or in particular area of political science combined with significant research on special political problems. PREREQUISITES: senior standing and permission of instructor. [2207-1]

4702. Independent Study. (1-3). Independent investigation of research problem or directed reading in selected area of political science under tutorial supervision of member of political science faculty. PREREQUISITE: permission of chairperson of department. [2207-1]

4705-6705. Special Topics in Public Issues. (3-6). Topics of current significance in public issues. May be repeated for maximum of 6 hours credit. [2207-1]

4801-6801. Science and Politics. (3). Multiple interactions between the political systems and scientific and/or technological development. Emphasis on relationships between science and politics in government and politics. [2207-1]

4802-6802. Sex and Politics. (3). Legal and political rights and duties of both sexes; relationship of government to various types of sexual activity. [2207-1]

Graduate Courses in Political Science. For course descriptions and further details of the graduate program, see the Bulletin of The Graduate School.

PSYCHOLOGY

PROFESSOR MILTON TRAPOLD,
Chairman

Room 202, Psychology Building

PSYC 1101 or 1102 is prerequisite for all other courses in the Department of Psychology; both 1101 and 1102 are required of Psychology majors.

E390 PSYCHOLOGY (PSYC)

1100. Psychological Principles and Personal Effectiveness. (3). For those planning to take only one psychology course. Introduction to basic psychology in the context of personal adjustment. Emphasis on how psychological principles and data generate tactics for more effectively managing one's behavior and emotions in relation to commonly encountered situations such as work, school, family, marriage, etc. [2001-1]

1101. General Psychology I. (3). Introduction to social aspects of psychology as a science of behavior. Areas of study include personality, abnormal behavior, psychotherapy, social psychology, cognitive, psychology, intelligence, and applied psychology. [2001-1]

1102. General Psychology II. (3). Introduction to the biological aspects of psychology as a science of behavior. Areas of study include learning, sensation and perception, physiological and comparative psychology, and psycho-pharmacology. [2001-1]

2301. Psychological Statistics. (3). Introduction to use of statistics in psychology, with emphasis on elementary theory of measurement and computation. Topics include measures of central tendency and variability, tests of significance, correlation procedures, and an introduction to multivariate analysis, analysis of variance, and nonparametric procedures. [2007-11]

2302. Introduction to Psychological Research. (3). Survey of logical and methodological considerations common to all research and an overview of the range of observational measurement methods available to the social sciences, and presentation of their research by various members of the faculty. PREREQUISITE: PSYC 2301. [2002-1]

3101. Psychology of Personality. (3). Introduction to development and functioning of normal person. Variety of representative theoretical orientations examined; emphasis on psychodynamics. History and other 20th century theoretical viewpoints. [2001-1]

3102. Abnormal Psychology. (3). Basic concepts of psychopathology with emphasis on the development of behavior deviations, description of various neurotic and psychotic reactions, and an introduction to methods of psychopathology. [2001-1]

3103. Child Psychology. (3). Patterns of cognitive, interpersonal, and behavioral development from birth through early adolescence. Psychological effects of genetic, organic and environmental influences as the child matures. [2009-1]

3104. Adult Psychology. (3). Patterns of cognitive, interpersonal, and behavioral development from late adolescence to death. The theoretical and empirical literature pertaining to such topics as marital and vocational choices, parenting, the midlife crises, and death. [2009-1]

3106. Social Psychology. (3). (3302). Analysis of the behavior and experience of individuals in group settings, examining and topical as: leadership, social influence, and inter-group interaction. [2001-1]

3107. Child Psychopathology. (3). Introduction to major theoretical formulations of childhood disorders, including learning, developmental, psychoanalytic and family systems theories. Emphasis on basic research that contributes to treatment of children with emotional, developmental, mental retardation, childhood autism, hyperactivity, and juvenile delinquency. [2003-1]

3199. Special Topics in Personality, Psychopathology and Development. (1-6). In depth coverage of topics not covered sufficiently in other 31- series of courses. Particular topics will be advertised in the department prior to registration. May be repeated for a maximum of 9 credit hours when the topic varies. [2001-1]

3304. Sensation and Perception. (3). (4203). Major senses, methods used to study them, and applications of this knowledge. Sensory and related interpretative process that operate upon sensory information, and relationship of those processes to learning and motivation.

3305. Learning and Memory. (3). (4204). Survey and analysis of the basic processes involved in acquisition and retention of new behaviors and alteration of existing behaviors in animals and humans. Examples of some central theoretical concepts and issues in memory. [2001-1]

3306. Physiological Psychology. (3). (4201). Survey of physiological processes underlying sensation, perception, motivation and emotion, motor systems, learned and learned behavior patterns, memory and other psychological functions. [2001-1]

3307. Animal Behavior. (3). (4202). Synthesis of comparative psychological and ethological approaches to study of animal behavior. Such topics as behavior genetics, species specific behaviors, behavior as a basis for phyletic classification, major behavioral dimensions related to phylogenesis, etc. [2002-1]

3399. Special Topics in Experimental Psychology. (1-6). (3301). In depth coverage of topics not covered sufficiently in other 31- series of courses. The particular topics to be covered each semester will be advertised in the department prior to registration. May be repeated for a maximum of 9 credit hours when the topic varies. [2001-1]

3501. Psychological Principles in Law Enforcement. (3). Application of psychological principles to law enforcement. Law enforcement both at the institutional level and at the level of the individual police officer dealing with the public. [2001-1]

3502. Psychological Testing. (3). (4301). Essentials of testing, emphasizing the concepts of reliability and validity; limitations of psychological tests; individual differences; personality tests; aptitude achievement, intelligence and personality tests; practical experience with some "paper-and-pencil" group tests; questionnaire construction and administration. PREREQUISITE: PSYC 2301 and 3101. [2006-11]

3503. Introduction to Clinical Psychology. (3). (4302). Survey of history of clinical psychology, services provided by clinical psychologists; different strategies of diagnosis and therapy; ethical considerations of clinical psychologists. Introduction to therapeutic techniques and practice in the use of these techniques. Field trips to institutions utilizing clinical psychologists. [2003-1]

3504. Introduction to Behavior Therapy. (3). (4303). Survey of behavior therapy techniques, including observational and performance methods of remediation, data recording and report writing. PREREQUISITE: PSYC 3102. [2003-1]

3505. Theory and Research in Community Mental Health. (3). (4304). Community and preventive mental health movement in clinical psychology. Social-psychological models, critical evaluation of research, and research presented in weekly class. [2009-11]. The remainder of the grade will be determined by performance during 5 hours per week of supervised community research. [2009-9]

3506. Human Sexuality. (3). (3105). A survey of existing knowledge of human sexual behavior, including physiological, anatomical, psychological and cultural components. Focuses primarily on sexual development, sexual behavior, sexual topics, sexual deviation, sexual dysfunctions, and types of treatments are also considered. PREREQUISITES: PSYC 1101 and 1102. [2001-1]

3507. Alcohol, Drugs and Behavior. (3). Survey of major drugs of abuse, their mode of action, and their behavioral effects, both acute and chronic. Major theories of etiology and maintenance of drug abuse, and review of prominent strategies for prevention, intervention, and treatment. [2001-11]

3508. Industrial and Organizational Psychology. (3). (3301). Application of psychological principles to work and work phenomena in industrial and organizational settings, with emphasis on personnel selection, classification and evaluation, employee attitudes, morale and motivation, and psychological processes in organizations. [2001-1]

3599. Special Topics in Applied Psychology. (1-6). In depth coverage of topics not treated sufficiently in the other 35- series of courses. Particular topics each semester will be advertised in department prior to registration. May be repeated for a maximum of 9 credit hours when the topic varies. [2001-1]

3600. Honors Program in Psychology. (3). For students entering the Honors Program in Psychology. Introduction to the psychological research activities within the Psychology Department and to the scholarly literature which pertains to the field. Application for admission to the HONORS PROGRAM. Admission to the Honors Program in Psychology. Students enrolled in honors programs elsewhere in the University may also enroll, after receiving permission from the Director of Honors. [2001-1]

3601. History of Psychology. (3). Comprehensive survey and critical analysis of philosophical and scientific antecedents of contemporary psychology. PREREQUISITE: 10 upper division hours in psychology. [2001-1]

4501. Senior Seminar In Psychology. (3). Current theoretical issues and experimental studies in psychology, open to undergraduate advanced students by invitation of the faculty. [2001-1]

4503. Special Problems in Psychology. (1-3). Student, under faculty supervision, may (a) read intensively in specialized area, (b) conduct psychological research and/or (c) obtain advanced training for a particular field. Psychological principles are applied. 4503 and 4504 may be taken for a combined total of 9 hours, no more than 6 of which may be with the same faculty member. PREREQUISITE: permission of the department or faculty member. [2001-1]

4504. Directed Research. (3). Majors receive first hand research experience under tutelage of individual faculty member. Students may work individually or in small groups depending upon the project. Projects conform to set of guidelines established for honors research. 4503 and 4504 may be repeated for a combined total of up to 9 hours, 6 with one faculty member. PREREQUISITE: permission of department. [S/U]. [2001-8]

4505. Honors Thesis in Psychology. (1-6). Supervised individual research projects designed for students enrolled in the Honors Program in Psychology. Students receive one credit hour for every 50 hours devoted to the thesis project, up to a maximum of six credit hours. PREREQUISITE: good standing in the Honors Program in Psychology. [2001-1]

4601. Advanced Studies in Psychology for Honors Students. (3). Reserved for students enrolled in the Psychology Honors Program, permits them to attend 7000 level graduate courses and still receive undergraduate credit. May be repeated for a maximum of 12 credit hours. [2001-1]

Graduate courses in Psychology. For description of courses and graduate programs, see Graduate Bulletin.

SOCIOLOGY AND SOCIAL WORK

PROFESSOR JERRY B. MICHEL, Chairman

Room 231, Clement Building

Sociology 1111 is a prerequisite for all other courses in sociology and social work.

E 410 SOCIOLOGY (SOCI)

1111. Introductory Sociology. (3). Relations among social values, social organizations, and social institutions. Processes through which people come together as well as institutions including family, economic and educational.

1112. Contemporary Social Problems. (3). Investigation, analysis, and discussion of current social problems. [2008-1]

190. Practitioner Perspectives on the Health Professions. (3). Social organizational aspects of medical practitioners' professional lives as presented by representatives of various medical fields. No prerequisite. [2008-1]

3311. Social Statistics. (3). Application of basic statistical concepts and techniques to social analysis. Description of data for single variables and for relationships between two

variables. Tests of significance for relationships between two variables involving sample data. Use of packaged statistical computer programs for single and two variable analysis. [2008-1]

3322. Methods of Social Research. (3). Overview of process of research, selection and formulation of problem, design of research, methods of investigation, analysis and interpretation of data, and report preparation. Emphasis on data collection techniques. PREREQUISITE: SOC 3311. [2008-1]

3401. Social Inequality. (3). Unequal distribution of power, property, and prestige; how and why this inequality occurs, and the resulting social strata such as "class" and "status group". [2008-1]

3422. Social and Ethnic Minorities. (3). (Same as ANTH 3422). Comparative study of social and ethnic minorities in United States and elsewhere, with a focus on differences in cultural background, social relationships, social, political, social, educational, and legal problems, factors contributing to satisfactory and unsatisfactory adjustments of minorities. [2008-1]

3431. Sociology of Sex Roles. (3). Traditional conceptions of masculinity and femininity and modifications of these resulting from economic, demographic and cultural changes. Socialization for masculine and feminine roles and variations in roles throughout life cycle. Class, race, occupational and other institutional effects on sex roles. [2008-1]

3501. Sociology of Deviant Behavior. (3). Contemporary theories of deviant behavior; major types of deviation in American society; relationship of deviant behavior and social disorganization to social change. [2008-1]

3521. Criminology. (3). Nature and significance of criminal behavior; social causes of criminal behavior; and trends in criminal behavior. Social reactions to criminal behavior. Development and nature of theories of criminal behavior. Current programs for treatment and prevention of criminal behavior. [2009-11]

3601. Population. (3). Population theories and policies; their definition and history. Trends in population growth; methods of population analysis, and trends in fertility and mortality. Emphasis on fertility, mortality, sex and age composition and migration and their influences on population change. PRE-REQUISITE: SOC 3311. Social conditions and population's permission. [2008-1]

3801. Sociology of Formal Organizations. (3). Formal organizations in society and their effects on individual and group behavior. Emphasis on nature of bureaucracy—in business, educational, political, welfare, military, religious, and other organizations. [2008-1]

3802. International Sociology. (3). Sociological analysis of education and international schools, school and community relationships; problems of social change and educational adjustments. [2008-1]

3831. Marriage and the Family. (3). Marriage and the family in comparative society. Interactions of family with other major social institutions; divorce, separation, marital adjustments, parental and family disorganization. Controversy changes and conflicts in marriage and family. [2008-1]

3841. Industrial Sociology. (3). Social characteristics of business and industrial organizations; role of the consultant in private organization and human relations programs. [2008-1]

3860. Sociology of Religion. (3). Role of religion in social systems; reciprocal influence of religion and modern society; sociological analysis of religious organizations and the roles which comprise them; social correlates of religious opinions and behavior. [2008-1]

3870. Political Sociology. (3). Sociological examination of political institutions, cultural and social factors associated with political structure, political attitudes, and political behavior; political decision-making as sociological process; comparative methods; study of social movements and political parties. [2008-11]

3930. Mexican Society and Culture. (3). (Same as ANTH 3930). Mexico's social development, population, contemporary institutions and cultural patterns, the family, the community, and urban society, minority group relations, and social problems. [2008-1]

3940. Social Change. (3). Sociological analysis of theory, nature, meaning, and consequences of social change. [2008-11]

4210. Rise of Sociological Theory. (3). Development of sociology through emphasis on period from Comte to "Chicago School". [2008-1]

4211-6211. Contemporary Sociological Theory. (3). European contributions, American developments and recent trends in sociological theory. [2008-1]

4312-6312. Intermediate Social Statistics. (3). Multivariate analysis of social data. Use of computer programs for data management and statistical analysis. PREREQUISITES: SOC 3311, 3322, or equivalents, or permission of the instructor. [2008-11]

4420. Race Relations. (3). Exploration into patterns of dominance; specific focus on institutional racism as it affects African Blacks. Attention given to ways in which racial conflicts reinforce the American stratification system. [2008-11]

4442. Sociology of Poverty. (3). Distribution of poverty and affluence in contemporary and industrial society. Effects of poverty on individuals and society. Theories of poverty. [2008-11]

4522. Juvenile Delinquency. (3). Trends of juvenile delinquency, development of case study techniques and diagnosis of juvenile delinquency; comparative analysis of various theoretical approaches. [2008-11]

4541-6541. Sociology of Aging. (3). (Same as SWRK 4541). Ageism in sociocultural contexts; current beliefs, values, and norms regarding aging; structural location of aging in society; and implications of aging on employment, poverty, private and institutional housing, crime, physical illness and mental illness. [2208-1]

4620-6620. Human Ecology. (3). Spatial structure and land use patterns of urban, rural, and fringe areas; city growth, its spatial and communication extension into suburban and rural areas; impact on economy, values, and social organization of communities. [2208-1]

4631. Urban Society. (3). Cities: their basic historical and modern development; power structures, social institutions, and relationships; future of the city. Problems of contemporary cities such as slums, urban sprawl, transportation, and environmental degradation. Processes of change in urban environment. [2214-1]

4730-6730. Attitude Theory and Measurement. (3). Basic properties of attitudes; theories of attitude formation and change; attitude-behavior discrepancies. Assumptions and techniques of attitude measurement, including scaling. PREREQUISITE: SOC1 3322. [2208-1]

4760. Sociology of Adolescence. (3). Social aspects of adolescence; emphasis on socialization, youth culture, and socialization of adolescent in industrial societies; conflict of institutional demands with peer group membership; self-identity problems; values of youth subcultures and contracultures. [2208-1]

4842-6842. Sociology of Occupations and Professions. (3). Sociological analysis of division of labor, occupational groups, and socialization of professional occupations in modern American society; meaning of work. [2208-1]

4851. Medical Sociology. (3). Sociological analysis of definition and distribution of physical illness and society's response to its occurrence, focusing on roles of patient, physician and ancillary professionals within contemporary medical settings; particularly the modern hospital. [2208-1]

4852. Sociology of Mental Illness. (3). Sociological analysis of definition and distribution of mental illness and society's response to its occurrence, focusing on social organizational provision for professional and patient roles within contemporary therapeutic settings. [2208-1]

4911. Special Topics In Sociology. (3). Special areas of sociology not otherwise included in the curriculum. NOTE: Course may be repeated for a maximum of 6 hours credit; [2208-1]

4912. Directed Individual Study. (1-6). Individually directed advanced reading and/or research. PREREQUISITE: permission of department chairman. NOTE: Course may be repeated for a maximum of 6 hours credit. PREREQUISITE: permission of department chairman. [2208-8]

4922. Senior Seminar in Sociology. (3). Current theoretical issues and to other advanced students by invitation. [2208-1]

Graduate Courses in Sociology: For course description and further details of the graduate program, see *The Bulletin of The Graduate School*.

E470 SOCIAL WORK (SWRK)

2911. Introduction to Social Welfare. (3). American social welfare system: its basic principles, social values, and underlying assumptions regarding societal responses to human need. Function of social welfare; principles of political, economic, social, and psychological influences contributing to contemporary institutions of social welfare. [2104-1]

3901. Professional Social Work in Contemporary Society. (3). Social work as a profession within social welfare institution; values, ethics, and overview of social work intervention at individual, group, and community levels; roles of social workers in human service agencies. PREREQUISITE: SWRK 2911 or instructor's permission. [2104-1]

3902. Human Development and Social Intervention I. (3). Survey of human needs from birth through adolescence; focus on role structures and relationships. Social and cultural variables in personal and social life experiences. PREREQUISITE: SWRK 2911. [2104-1]

3903. Models of Social Intervention. I. (3). Theories and concepts in social work, including introduction to case work, group work and community organization. Emphasis on case work model and on implications of intervention. PREREQUISITE: SWRK 2911, 3902 and permission of Director, Division of Social Work. [2104-1]

3904. Models of Social Intervention II. (3). Emphasis on problem-solving models, assessment, intervention planning, use of community resources, and functions of social workers; systematic case analysis. PREREQUISITE: SWRK 3903. [2104-1]

3905. Dynamics of Professional Interviewing. (3). Models, techniques and skills in relationship building, types and styles of interviews; interaction patterns between client and social worker; observational and experimental activities, role-playing and videotape. PREREQUISITE: SWRK 3903. COREQUISITE: SWRK 3904. [2104-1]

4932. Models of Social Intervention III. (3). Theory and application of group dynamics concepts as applied to individual in group, committee and community structures and functions; roles of social worker in these settings. [2104-1]

4933. Directed Individual Study. (1-4). Individually directed advanced reading and/or research in special areas of social work, not otherwise provided in curriculum. NOTE: No more than 4 hours may be taken in any one semester. May be repeated for maximum of 6 semester hours credit. PREREQUISITE: permission of Director and permission of Director, Division of Social Work. [2104-8]

4934. Child Welfare Policy and Services. (3). Historic overview and contemporary application of child welfare policy problems in policy development; contemporary American child welfare services in both public and private domains. PREREQUISITE: SWRK 3903. [2104-1]

THE FOGELMAN COLLEGE OF BUSINESS AND ECONOMICS

H500 BUSINESS ADMINISTRATION (BA)

In addition to specific prerequisites, junior standing or permission of the department chairman is a prerequisite for all 3000 and 4000 level courses in The Fogelman College of Business and Economics.

3900. Study and Travel in Business and Economics. (3). Travel to important areas of world and conduct study of economic and business systems of selected countries under direction of the faculty of The Fogelman College of Business and Economics.

4000. Internship in International Business. (1-6). Practical operations of international business. Students placed for 1-6 month period with cooperating business firms operating in field of interest; banking, insurance, trade, management, marketing, or accounting. Academic credit granted upon certification of satisfactory performance by cooperating business firm and upon acceptance by faculty of written report prepared by student. [2208-1]

4100. Seminar in Entrepreneurial. (3). Individual incentive with particular reference to the Executive in Residence and Entrepreneur Fellow Series during a single academic year. Emphasis on directed advanced reading and research papers. May be repeated for maximum of 6 semester hours. PREREQUISITES: BBA 2000, ECON 2101 and SOC 1001. [2208-1]

4900. Practicum in Research. (1-3). Actual problem solving research activities in business and economics. Student assigned to project either being conducted currently by faculty member or on developed under supervision of faculty member. Work on project under supervision of student's major field of study. PREREQUISITE: senior status. [0501-8]

4990. Junior Achievement Advising Practicum. (3). Three-hour credit course designed for two-semester duration. Students will have 1/P grade at end of first semester, final grade given at end of second semester. Prerequisites: 15 hours approved by The Fogelman College of Business and Economics and other groups may form advising teams under direction of faculty advisor for purpose of working with Junior Achievement. PREREQUISITE: upper division status and approval of Junior Achievement program advisor. (S/U). [0501-5]

In addition to specific prerequisites, junior standing or permission of the department chairman is a prerequisite for all 3000 and 4000 level courses in The Fogelman College of Business and Economics.

H510 ACCOUNTANCY (ACCT)

2010. Fundamentals of Accounting I. (3). Study of collection and presentation of financial transactions and communicating information they contain with periodic general purpose financial statements using double-entry accounting techniques. Use of accounting procedures to routinize and control repetitive activities. Theoretical and minimum necessary accounting concepts. [0502-1]

2020. Fundamentals of Accounting II. (3). Continuation of Accounting I plus general survey of cost accounting, income taxes, financial statement analysis, and special accounting analysis for managerial decision making. PREREQUISITE: Accounting I. [0502-1]

2720. Accounting Laboratory. (1). Working of practice set involving current accounting practice. PREREQUISITE: ACCT 2010. [0502-1]

3010. Managerial Accounting. (3). Accounting as it relates to managerial control. Includes financial statement analysis including price level changes, cost controls, budgeting and other management techniques for decision making in management. Both semesters. PREREQUISITE: ACCT 2020. [0502-1]

3110. Intermediate Accounting I. (3). Review of accounting process and financial statements, cash and cash flow, receivables and current liabilities, investment in long-term assets. PREREQUISITES: ACCT 2720 and 2730. [0502-1]

3120. Intermediate Accounting II. (3). Property and equipment; contributed capital; retained earnings and dividends; treasury stock, bonds, income taxes; long term investments; statements from intermediate accounting; statements of changes in financial position; analysis of financial statements. PREREQUISITES: ACCT 2720 and 3110. [0502-1]

3310. Cost Accounting. (3). Cost systems, including job order, process, and standard, as management information systems; for planning and control. Allocation of indirect costs; preparation of variable budgets, and determination of standard cost variances and their meaning. PREREQUISITE: ACCT 2020. [0502-1]

3510. Federal Income Tax I. (3). Regulations pertaining to individuals and partnerships; installment and deferred payment methods; capital gains and losses; tax credits; tax planning. PREREQUISITE: ACCT 2720 and 3110. [0502-1]

4210. Advanced Accounting. (3). Partnerships, consignments, installment sales, statement of affairs, receiver's accounts, statement of realization and liquidation, business

combinations and consolidated financial statements, branch accounting, fund accounting, international accounting. PREREQUISITE: ACCT 3120. [0502-1]

4240-6240. Auditing. (3). Ethics in accounting practices, internal control, auditing standards and procedures, preparation of audited financial statements, construction and indexing of various financial statements, and audit reports carried out. PREREQUISITES: ACCT 3120, 3310. [0502-1]

4310. International Accounting. (3). Comparative study of international accounting and auditing practices; variations in accounting thought; reporting standards; taxation in international operations; professional and ethical standards; effect of government regulation on accounting practice. PREREQUISITES: ACCT 2020. [0502-1]

4450. Accounting Systems. (3). Problems involved in designing accounting systems for various types of businesses; including preparing accounting data by electronic computer. PREREQUISITES: ACCT 3120, 3310, and MGMT 2750. [0502-1]

4520-6520. Federal Income Tax II. (3). Laws and regulations for corporations, estates and fiduciaries. Includes project on tax research. PREREQUISITE: ACCT 3150. [0502-1]

4540-6540. Governmental Accounting. (3). Accounting theory and practice applicable to federal, state, and local government and to non-profit institutions; budgetary control; control, classification, and use of funds; financial statement and reporting. PREREQUISITES: ACCT 2020. [0502-1]

4610-6610. Seminar in Accounting. (3). Capstone course to be taken, preferable, the student's graduating semester. Impact on financial reporting of SEC and other regulatory agencies; pension plans and leases; calculation of earnings per share; stock rights, stock options, and convertible assets. Current applications of FASB, CASB and AICPA comments. Overview of accounting process and ethics through case studies. PREREQUISITE: two senior level accounting courses. [0502-1]

4810. Internship in Accounting. (3). Seniors, after receiving approval of accounting faculty, to be placed in offices of cooperative public accounting firms to receive on-the-job training under direct supervision of certified public accountants and general supervision of University accounting staff. Credit award upon receipt of report of work done. Variable pay, supervised contract. Minimum time: 300 hours. PREREQUISITE: senior standing. [0502-5]

Graduate Courses in Accountancy: For course descriptions and details of the graduate programs, see *The Bulletin of The Graduate School*.

ACCOUNTANCY

PROFESSOR JAMES THOMAS THOMPSON,
Chairman

Room 2004, The College of Business Administration Building

ECONOMICS

PROFESSOR THOMAS O. DEPPERSCHMIDT,
Chairman

Room 400, The College of Business Administration Building

In addition to specific prerequisites, junior standing or permission of the department chairman is a prerequisite for all 3000 and 4000 level courses in The Fogelman College of Business and Economics.

H520 ECONOMICS (ECON)

1010. Economic Issues and Concepts. (3). Critical examination of current economic issues facing the country. Discussion and use of elementary tools of economic analysis for familiarization with importance and applicability of economic reasoning. Not taught every year. ECON 1010 or 2110 is a requirement for College of Business Administration. (2005-1)

2110. Introduction to Macroeconomics. (3). Nature and functions of national economy. Includes supply and demand, national income and product, consumption and investment behavior, fiscal and monetary policy, and international trade and finance. (0517-1)

2120. Introduction to Microeconomics. (3). Tools of economics as they apply to operation of market economy. Includes theory of demand and supply, behavior of economic agents, nature of production and cost, formation of firms, in both competitive and monopoly environments, income distribution theory and effects of government intervention in market system. PREREQUISITE: ECON 1010 or 2110 recommended. (0517-1)

2133. Principles of Macroeconomics (Honors). (3). Accelerated and intensified introduction to basic concepts of macroeconomics: supply and demand, national income and product, unemployment and inflation, monetary and fiscal policy, and international trade. PREREQUISITE: invitation of honor to the Honors system or admission to University Honors Program. (0517-1)

2140. Principles of Microeconomics (Honors). (3). Accelerated and intensified introduction to basic concepts of microeconomics: supply and demand, consumer behavior, production and cost, competitive and monopolistic market structure, income distribution, and effects of government intervention in market system. PREREQUISITE: invitation of honor to the Honors system or admission to University Honors Program. (0517-1)

3210. Labor Economics. (3). Introduction to institutional aspects of American labor force and its organization: wage and employment theory, economic role of collective bargaining, and basic ingredients of public policy toward labor organization. PREREQUISITE: ECON 2101 or 2110. (0517-1)

3310. Microeconomic Theory. (3). Intermediate approach to price theory. Stress on market mechanism as device for allocation of scarce resources. Use of basic microeconomic concepts in analysis of economic problems and formulation of policy. PREREQUISITE: ECON 2100 or 2110. (0517-1)

3320. Macroeconomic Theory. (3). Intermediate approach to social income accounting and to functional relationships between important aggregate economic variables as well as to forecasting and social policy implications. PREREQUISITE: ECON 2100. (0517-1)

3410. Economic Development of the United States. (3). Economic growth of American economy in general and problems of economic growth in South in particular. Emphasis on factors instrumental in that growth in various segments of economy. PREREQUISITE: ECON 1010 or 2110. (0517-1)

3580. International Economic Development — An Ecological Approach. (3). Process of economic development as adaptive response by human society to ways and ways in which environment exploited to satisfy those needs in both developed and less developed countries. PREREQUISITE: ECON 1010 or 2110 or consent of instructor. (0517-1)

3610. Money and Banking. (3). Monetary and banking history of leading countries with special emphasis on theory of money of the United States. Central bank and savings operations of individual banks, interbank, and central bank relations. PREREQUISITE: ECON 2110. (0506-1)

3810. Manpower Program Planning. (3). Planning of programs designed to solve manpower problems. Includes overview of manpower policy and legislative efforts to relieve manpower shortage, analysis of manpower research, goals of manpower planning, and approaches and techniques of manpower planning. (0506-1)

3811. Manpower Program Administration. (3). Administration of programs designed to solve manpower problems. Includes management of manpower program units, special manpower programs, grant-in-lieu of service, delivery of manpower programs, delivery of manpower services, coordination of programs among manpower agencies, and evaluation of manpower programs. PREREQUISITE: ECON 3210. (0506-1)

4040. Economic Foundations of Legal Issues. (3). Economic foundations of legal issues designed to explain legal foundations of market economy. Topics include open access and contracts, free and regulated markets, environmental protection, consumer protection, economics of crime, and economics of discrimination. PREREQUISITE: ECON 2120. (0517-1)

FINANCE, INSURANCE AND REAL ESTATE

PROFESSOR ROGER K. CHISHOLM,
Chairman

Room 402, The College of Business Administration Building

In addition to specific prerequisites, junior standing or permission of the department chairman is a prerequisite for all 3000 and 4000 level courses in The Fogelman College of Business and Economics.

FINANCE, INSURANCE AND REAL ESTATE

(FIR) (0517-1)

2220. Personal Finance and Management. (3). Nontechnical dealing with broad areas of budgeting, insurance, borrowing and credit purchases, home ownership, investment, taxes, and family financial planning. NOTE: If taken by a student after he has received credit for FIR 3710 or 3810, credit will not be given for FIR 2220.

2011. Business Law. (3). Elements of law and legal principles encountered by businessman. Emphasis on basic law of contracts, sales and secured transactions, negotiable instruments, real and personal property, agency, forms of business organization, suretyship, insurance, contracts, and torts. (0517-1)

3120. The Legal, Social, and Political Environment of Business. (3). Emphasis on legal, social, and political environment in which business and its executives exist. Legal, social, and political forces that affect business operations. Lectures and discussions. (0517-1)

3310. Real Estate Principles. (3). Basic terminology, principles, and issues. Topics include market analysis, real estate law, instruments, legal descriptions, appraisal, investment, finance, brokerage, property management, and development. (0517-1)

3410. Business Finance. (3). Integration of principles of financial management with institutional finance. Current topics of major interest include financing working capital management, capital budgeting, and acquisition of funds. PREREQUISITE: ACCT 2020 and MGMT 2710

3710. Investments. (3). Principles of investment in stocks and bonds. Includes fundamental, economic, and technical analysis; measurable and unmeasurable aspects of risk; portfolio theory; and the relationship of risk and return of the market. PREREQUISITE: ECON 2110 and MGMT 2710

3720. Financial Markets. (3). Survey of important funds markets, institutions, and characteristics peculiar to them. Sources of supply and of demand for funds in each market, and the interrelationships between several markets analyzed. (0504-1)

3730. Commodity Futures Market. (3). Mechanics of trading including the contract, commodities traded, exchanges involved, etc. Transfer of risk and stabilization of prices through futures contracts. Includes buying/selling strategies including hedging used by farmers, commodity marketers, speculators, and processors. (0517-1)

3810. Principles of Risk and Insurance. (3). Theory of risk, risk management, and insurance practice and problems in fire, liability, automobile, marine, surety, life, health and accident insurance. (0517-1)

4010-6011. Law of Taxation and Planning of Estates. (3). Survey of law of taxation as applied to transmission of property by gift or death and its impact upon accumulations of wealth. Estate planning and financial viewpoint designed to create wealth and eliminate major tax problems. PREREQUISITE: FIR 3011 or consent of the instructor (0517-1)

4110. Special Topics. (3). Current topics in one of following areas: Finance, Insurance, Real Estate, and Law. Content will vary each semester. Specific course descriptions will be available through FIR Department prior to enrollment. May be repeated once with change in topic area. PREREQUISITE: consent of instructor. (0599-1)

4310-6310. Real Estate Law. (3). Law and legal instruments as applied to real estate. To serve needs of realty owners and agents involved in real estate business. PREREQUISITE: FIR 3310. (0517-1)

4320-6320. Real Estate Finance. (3). Examination and analysis of source of funds for financing all kinds of real estate investments including FHA and VA types. PREREQUISITE: FIR 3310. (0517-1)

4330-6330. Determinants in Housing Finance. (3). Consideration of determinants of private and public demand for housing; relationships between construction and economic trends; new town legislation; urban renewal and development; and other topics. PREREQUISITE: FIR 3310. (0517-1)

4340-6340. Real Estate Appraisal. (3). Basic terminology, principles, and practices of real estate appraisal. Includes the nature of value; principles of value; appraisal process; market approach, cost approach, capitalization of income approach, gross rent multiplier approach, and appraisal reports. PREREQUISITE: FIR 3310. (0517-1)

4400. Managerial Finance. (3). Analytical approaches to firm's financial decisions; including current asset management, capital budgeting, cost of capital, capital structure determination, and dividend policy. PREREQUISITE: FIR 3410. (0504-1)

4111. Managerial Economics. (3). Direct application of economics to common business problems. Economic framework and empirical techniques of production and cost analysis, project evaluation, pricing, and demand analysis. PREREQUISITE: ECON 2120 and MGMT 2711, 2750. (0517-1)

4120. Economic Forecasting. (3). Current economic thinking including of recession and inflation as background to economic forecasting. Methodologies of forecasting analyzed with examples of each. PREREQUISITE: MGMT 2711 or equivalent. (0517-1)

4130-6130. Government Regulation of Business. (3). Approaches to legal and legislative control of business, especially tax laws, commission regulations, and anti-monopoly legislation — in view of impact of each on industrial operating policy. PREREQUISITE: ECON 1010 or 2110. (0517-1)

4140. Industrial Organization. (3). Economic analysis of two industries of American industry: 1) historical study of new industries, of question of oligopoly market power, and of impact of merger waves, and 2) analysis of structure, conduct, and performance in industry using case studies in manufacturing, transportation and trade. PREREQUISITE: ECON 2120. (0517-1)

4340. Comparative Economic Systems. (3). Theoretical framework underlying major alternative economic systems: capitalism, socialism, communism, fascism — with U.S., Sweden, the U.K., the U.S.S.R., and Spain as examples. Attention to problems and difficulties associated with integration of systems. PREREQUISITE: ECON 1010 or 2110. (0517-1)

4350. International Economics. (3). Historical approach to the field; international trade; international trade techniques; foreign investment and trade; foreign exchange; balance of payments, and world interdependence. PREREQUISITE: ECON 2120 or equivalent. (0517-1)

4410. Development of Economic Thought. (3). Historical development of economic thought, emphasis primarily on mercantilism, classical, Neoclassical thought, several dissident schools of thought, and twentieth century economic thought. PREREQUISITE: ECON 1010 or 2110. (0517-1)

4511. Urban and Regional Economics. (3). Theory and problems of regional economic development and evolving economic structure of urbanized areas. Analysis of principles of location and economic activity; determinants of income and trade policy, and public policy for development of regions. PREREQUISITE: ECON 1010 or 2110. (2204-1)

4510-6510. Central Banking and Monetary Management. (3). History and economic function of central banks. Analysis of role of monetary policy in achieving predetermined objectives; emphasis on interrelationships of monetary policy, central banking, and financial markets. PREREQUISITE: ECON 2120 or equivalent. (0517-1)

4720. Economics of the Public Sector. (3). Theory and problem of government expenditure, revenue, and debt, and problem of integrating them into meaningful fiscal policy. Alternative forms of taxation analyzed, especially from standpoint of economic effects. PREREQUISITE: ECON 2120. (0504-1)

4740-6740. Health Care Economics. (3). Topics include unique nature of health care as economic good, health care market and participants including patients, physicians, and hospitals, and financing and delivery of personal health care in the United States and other countries.

4750-6750. Financial and Local Government. (3). Fiscal operations at state and local government levels in United States. Attention to state and local government tax structures; emphasis on property tax assessment and administration; fiscal relations of intergovernmental units; their expenditures and debt; and financing, financial, and fiscal administration. PREREQUISITE: ECON 1010 or 2110. (0517-1)

4810-6810. Introduction to Economic Analysis. (3). Application of quantitative techniques of analysis to economic problems; including the concept of economic relationships, formulating usable quantitative statements, and finding and developing relevant analytical methods. PREREQUISITES: one year of college mathematics and ECON 3310. (0517-1)

4910. Problems in Economics. (3). Students investigate issues surrounding selected economic problem and develop research projects. May not be repeated for credit. PREREQUISITE: upper division standing and approval of department chairman. (0517-1)

4920. Senior Seminar in Economics. (3). Coordinated by department chairman and conducted by selected members of department. To integrate several fields and course areas pursued by undergraduate students into a meaningful whole. Required of all department majors in their last semester of undergraduate enrollment. (0517-1)

4930-6930. Economic Evaluation of Investment Projects. (3). Objectives, evaluation of proposed business and social projects, concepts on how to evaluate cost benefit analysis and provides instruction in making and controlling cost budgets PREREQUISITES: ECON 1010 or 2110. (0517-1)

4996. Honors Thesis in Economics. (3) Independent research open only to students enrolled in Economics Department Research Program. Honors thesis supervised by three faculty committee members, including the chair of the Economics Honors Committee. PREREQUISITE: permission of Economics Department Honors Committee. (0517-1)

4040. Economic Foundations of Legal Issues. (3). Economic foundations of legal issues designed to explain legal foundations of market economy. Topics include open access and contracts, free and regulated markets, environmental protection, consumer protection, economics of crime, and economics of discrimination. PREREQUISITE: ECON 2120. (0517-1)

Graduate Courses in Economics: For course descriptions and details of the graduate program, see *The Bulletin of The Graduate School*

4550. International Finance. (3). Financing international trade and investments; foreign exchange markets and exchange rates, balance of payments; currency developments in world markets. PREREQUISITE: MGT 2101.

4610-6610 Cases in Managerial Finance. (3). Application of tools and principles introduced in previous courses to develop up-to-date problem solving techniques. Cases approached from standpoint of top level management and utilize both quantitative and qualitative analysis. PREREQUISITE: FIR 3410 / MGT 2100-1.

4720-6720, Operations and Management and Financial Institutions. (3). Exposure to financial policies and decision-making that are peculiar to financial institutions in United States. Emphasis on the relationship of financial institutions to the state standards of liquidity and solvency. PREREQUISITES: ECON 3610, FIR 3410, and FIR 3720, or consent of the instructor. [0504-1]

4770. Securities Analysis and Portfolio Management. (3). Development of techniques for finding actual worth of securities, primarily stocks and bonds. Portfolio management involves selection, timing, diversification, and other aspects of supervising investment funds. PREREQUISITE: FIR 3710. [0505-1]

4780. Investment in Real Estate. (3). Seminar in real estate with approval of department. Emphasis placed on real estate firms to work in areas of real estate sales, brokerage, finance, development, appraisal and property management. Spring semester only. PREREQUISITES: minimum of 9 hours in a related course or section standing. [0511-1]

4810-6810. Property and Casualty Insurance. (3). Forms and functions of fire, marine, automobile, general liability, and other types of property and casualty insurance; emphasis on their application to commercial and industrial occupancies. Current underwriting practice. PREREQUISITE: FIR 3810. [0512-1]

4820-6820. Life and Health Insurance. (3). Functions of life and health insurance; emphasis on need for insurance and service of life and health insurance to American family and community. Medical insurance, accident insurance and annuities. PREREQUISITE: FIR 3810. [0512-1]

4840-6940. Multiple Line Insurance Company Operations. (3). Company and industry functions other than contracts, including rating, rate-making, reserves, auditing, underwriting, reinsurance, claims, and other functions of multiple line insurance supervision. PREREQUISITE: FIR 3810. [0512-1]

4850. Social Insurance. (3). Nature and causes of economic insecurity in our society; emphasis on broader aspects of public and private programs; Social Security Act, Unemployment Compensation, Workmen's Compensation, Medicare and other approaches. De-emphasizes detailed facts and statistics otherwise readily available from various government agencies. [0512-1]

4860-6860. Employee Benefit Programs. (3). Analysis of tax deferred employee compensation plans. Included are pension, profit-sharing, annuity, stock purchase and other incentive-type benefit plans. Group insurance and Social Security programs considered. [0512-1]

4870. Risk Management. (3). Problems of risk manager in small and large firms; methods of handling risk that serve as alternatives to obtaining insurance, and brief survey of insurance as standard for comparisons. [0512-1]

4910. Problems In Finance, Insurance, or Real Estate. (1,3). Students will carry on approved research projects in his major area under supervision of staff members. PREREQUISITE: senior standing and permission of the department chairman. [0501-8]

Graduate courses in Finance, Insurance, and Real Estate: For details of the graduate program see The Bulletin of The Graduate School.

MANAGEMENT

ASSOCIATE PROFESSOR
THOMAS ROGER MILLER, Chairman

Room 202, The College of Business Administration Building

In addition to specific prerequisites, junior standing or permission of the department chairman is a prerequisite for all 3000 and 4000 level courses in The Fogelman College of Business and Economics.

Administration

H550 MANAGEMENT (MGMT)

1010. Introduction to Business. (3). Acquaintance with major institutions and practices in business world. Management functions, organization, planning, control, financial management, relations, and production management. Other major fields include such areas as business law, accounting, finance, and marketing. Elementary concepts of business; orientation to business; specific information concerning business career opportunities. Open to freshmen only. NOTE: If taken by students with 25 hours or more, credit will not count for BBA degree. [0501-1]

2710. Business Statistics I. (3). (3710). Introduction to basic statistical procedures for analysis and interpretation of business data. Descriptive statistics, probability distributions, probability theory, measures of central tendency and variability, sampling distributions, estimation of parameters, and elementary decision theory. PREREQUISITES: MATH 1203 and MGMT 2750 (or concurrent enrollment in 2750).

2711. Business Statistics II. (3). (3711). Topics include hypothesis testing, nonparametrics, index numbers, analysis

of variance, simple and multiple techniques of regression and correlation analysis, and time-series analysis. PREREQUISITE: MGMT 2710.

2750. Introduction to Management Information Systems with Computer Applications. (3). Introduction to major concepts in business information systems. Students will be required to solve business problems utilizing computer in an on-line interactive environment. PREREQUISITE: MGT 2110.

3110. Management and Management. (3). Management functions and basic concepts and principles of management. Includes planning, decision-making, organization, coordination and control, and basic elements of production management. PREREQUISITE: junior standing or permission of department chairman. [0506-1]

3210. Industrial Relations and Labor. (3). Role played by modern labor organizations. Includes early efforts of workers to organize, factors which hampered growth of labor unions, and identification of labor leaders. Growth and development of local unions and giant labor federations. Internal policies and tactics of major unions analyzed. PREREQUISITE: MGMT 3110. [0516-1]

3510. Production and Operations Management. (3). Introduction to management of production function in all types of organizations. Basic understanding of operations function necessary for systematic analysis of problems associated with creation of goods and services. PREREQUISITE: MGMT 2711. [0506-1]

3750. Computer Programming for Common Business Applications. (3). (3750). Focuses on designing, writing, and debugging programs in COBOL for common business applications involving sequential files. PREREQUISITE: MGMT 2750 or equivalent. [0704-1]

3760. Operations Research. (3). (4760). Introduction to design, analysis, and computing problem solving technique. Emphasis on problem definition, model construction, and various solution techniques including linear programming, project analysis and control, queuing methods, and simulation. PREREQUISITES: MGMT 2711 and 2750, or equivalent. [0507-1]

3780. Computer Systems and Business Applications. (3). (3). An introduction to typical computer configurations and their relation to typical business information subsystems. Existing implementations of business EDP systems and sources of information on hardware / software developments stressed. PREREQUISITES: MGMT 2750. [0703-1]

4210-6210. Labor Relations and Administration. (3). Employer-employee relationship, job analysis, recruitment, selection, training, promotion, and dismissal of employees; industrial unrest; wage plans and policies; employee health, interest, and morale; dealing with unions. PREREQUISITE: MGMT 3110. [0506-1]

4220-6220. Collective Bargaining. (3). Labor-management relations from standpoint of collective bargaining contracts; emphasis on process of negotiating agreements, including procedures, tactics, and subject matter. PREREQUISITE: MGMT 3110. [0516-1]

4230-6230. Labor Legislation. (3). Historic and philosophic background of labor legislation; emphasis on recent legislation in labor area and effect of these laws on social and economic institutions. PREREQUISITE: MGMT 3110. [0516-1]

4240-6240. Compensation Administration. (3). Systematic examination of administration of wage and salary as tool of management. Through use of job descriptions, analyses, and job evaluations, emphasis is placed on techniques of rationalizing wage structures. Analyses of some outstanding considerations which must be taken into account in installing and administering wage programs are made. PREREQUISITE: MGMT 3110. [0506-1]

4240-6240. Organizational Behavior in Business. (3). Human relations in business at work, all kinds of organizations. Emphasis on understanding of behavior and motivation of employees to work together in greater harmony. Includes fundamentals of organizational behavior, leadership and its development, organizational environment and communication and group processes. PREREQUISITE: MGMT 3110. [0516-1]

4242. Motivation and Leadership. (3). Identification of theoretical and practical approaches to influencing and motivating people. Findings of numerous theorists compared and contrasted to explore relative effectiveness of various leadership styles. Includes the use of self-assessment and developmental based learning methods used to aid diagnosis and understanding of one's own influence styles. PREREQUISITE: MGMT 4420. [0502-1]

4510-6510. Production and Operations Management II. (3). Emphasis on entire production system including interfacing with engineering, role of material requirements, production planning systems, specific planning techniques studied. Aggregate inventory management, distribution, inter-plant inventories, and design of materials management systems emphasized. PREREQUISITES: MGMT 3110, 3510. [0506-1]

4710. Business Policy. (3). Advanced problems in determining, executing and controlling of strategic management process in view of changing environment in which organizations operate. PREREQUISITES: MGMT 3110 and senior standing in The Fogelman College of Business and Economics. Must be taken in last or next to last semester before graduation.

4711-6711. Intermediate Statistical Analysis. (3). In depth study of business decision making using advanced statistical concepts including additional probability distributions, use of samples and sample designs, non-parametric methods, and analysis of variance. Students will be required to use of computers and analysis of variance. Comprised statistical programs utilized to solve complex problems. PREREQUISITES: MGMT 2711 and 2750. [0506-3]

4755. Business Data Management. (3). Focus on (1) design, writing, and debugging programs written in a high-level language, for solving business applications involving direct access to files; (2) selecting appropriate data structures for designing data models; and (4) evaluating Commercial Data Base Management Systems. PREREQUISITES: MGMT 3750, 3780. COREQUISITE: MGMT 4755. [0704-1]

4780-6780. Systems Design for Business Activities. (3). Emphasis on computer systems design for typical business applications involving solving business problems. Estimates of computer requirements, organizational arrangement, planning, total system, flow-charting, conversion problems, cost and performance evaluation. Objective to simulate business operations into computer oriented systems. PREREQUISITE: MGMT 3760. [0705-1]

4790-6790. Management Information Systems. (3). Problems and techniques concerning design and installation of responsive systems brought together; special attention to executive use of systems; System approach to utilization, design, and control of MIS; use of computers; review of current literature and texts in computer field. PREREQUISITES: MGMT 2750 and one college level mathematics course; junior standing, or permission of instructor. [0506-1]

4810-6810. International Management. (3). Fundamental knowledge of contemporary managerial problems as presented in world-influenced business periodicals. PREREQUISITE: problem in planning, contract, choosing foreign associates, plan, location, labor, bureaucracy, legal constraints, and trade with foreign governments highlighted by texts and through discussion of articles from current business periodicals. PREREQUISITES: MGMT 3110 and MNG 310. [0506-1]

4820. Venture Initiation Management. (3). Initiation process of new business ventures. Includes identification of opportunities, detailed development plan covering all phases of business initiation and development. PREREQUISITE: completion of 3000 level Business Administration Core Courses or consent of instructor. [0506-1]

4910. Management Problems. (3-3). Student carries on approved research projects in his major area under supervision of department chairman. PREREQUISITE: junior standing and permission of department chairman. [0506-8]

Graduate courses in Management: For details of the graduate program see The Bulletin of The Graduate School.

MARKETING

ASSOCIATE PROFESSOR
C. L. ABERCROMBIE, Chairman

Room 302, The College of Business Administration Building

In addition to specific prerequisites, junior standing or permission of the department chairman is a prerequisite for all 3000 and 4000 level courses in The Fogelman College of Business and Economics.

H560 MARKETING (MKTG)

3010. Principles of Marketing. (3). Comprehensive study of structure and function of marketing system in the firm, economy, and society. Includes analysis of target markets, environments, and managerial aspects of marketing practices. PREREQUISITE: junior standing, ACCT 2010, and ECON 2120, or permission of department chairman. [0509-1]

3012. Consumer Behavior. (3). Why consumers behave as they do. Includes study of consumer behavior theories and principles applied to current marketing problems. PREREQUISITE: MKTG 3010 or permission of instructor. [0509-1]

3140. Advertising Fundamentals. (3). Field of advertising including media, layout, copy, typography. PREREQUISITE: MKTG 3010 or permission of instructor. [0604-1]

3170. Advertising Problems. (3). Case study of advertising problems. Includes analysis of situations, planning and development of creative strategy, planning of media, evaluation of advertising results and introduction to organization and management of advertising function. PREREQUISITE: MKTG 3140. [0604-1]

3320. Retailing Fundamentals. (3). Changing concepts of retailing, its importance, and problems of retailing. Successes and failures of enterprises distributing products and services to ultimate consumers. PREREQUISITE: MKTG 3010 and ACCT 2010 or permission of department chairman. [0509-1]

3330. Retail Merchandising Management. (3). Buying function at retail level, emphasis on selection, pricing, promotion, and control of inventory. Includes study of inventory management, long and short-range objectives and policies which affect merchandise investment. PREREQUISITE: MKTG 3320. [0509-1]

3410. Sales Fundamentals. (3). Basics of personal selling, preparation, personality development, communications, sales interview techniques, ethics, and career opportunities.

Selling skills developed via sales presentations, role playing, audio-visual self-observation, and use of sales aids. PREREQUISITE: MKTG 3010 or permission of department chairman. MKTG 3012 recommended but not required. [0509-1]

3610. Physical Distribution. (3). Physical distribution system within an organization. Emphasis on transportation, customer service, inventory, warehousing, and packaging functions. PREREQUISITE: MKTG 3010.

3620. Transportation and Logistics Systems. (3). Economic, social and political aspects of transportation systems. Includes: States Intermodal, rail, truck, air, water, marine, transportation, physical distribution, logistics, marketing, production, and financial management as they impact flow of raw materials and finished goods through the firm. PREREQUISITE: MKTG 3610.

3630. Traffic Management. (3). Detailed analysis of freight transportation within firm's logistics system. Includes: rate and classification systems, class rates, shipping documents, procedures, carrier selection, and other aspects associated with organizing and operating traffic department. PREREQUISITE: MKTG 3610 or permission of department chairman. [0510-1]

3710. Agribusiness Marketing and Institutions. (3). Government and private institutions involved in marketing. Analysis of marketing functions as applied to marketing of supplies and services to the farm, as well as agricultural products from the farm to the consumer. [0509-1]

4080. Marketing Research. (3). Research methods and procedures used in field of marketing to help solve business problems. PREREQUISITE: MKTG 3010 or permission of department chairman. MKTG 3010. [0509-1]

4150. Advertising Media and Campaigns. (3). Characteristics and uses of media by companies, products lines and reasons for selection. Last part of both semesters devoted to development of campaign for particular firm. PREREQUISITE: MKTG 3140. [0509-1]

4210. Industrial Marketing. (3). (3220) Marketing to the institutional buyer including government, governmental, and institutional buyers. All aspects of the marketing mix (includes personal selling) and marketing research as applied to industrial marketing. PREREQUISITE: MKTG 3410.

4220. Purchasing. (3). Policies for effective and efficient procurement of goods and services for today's industry. Close attention to measurement and evaluation of purchasing performance. PREREQUISITE: MKTG 3010. [0509-1]

4410. Sales Management. (3). Sales management functions of recruiting and hiring, training and assimilating, planning, controlling and motivating, and sales analysis. Role of personal selling in the promotional mix and sales objectives of management. PREREQUISITE: MKTG 3010. [0509-1]

4420. Sales Training. (3). One of most important staff activities within any marketing department is training of sales personnel. Detailed training in salesmanship, art of sales info, into teachable subject which will apply to business world. How to become a sales trainer and to develop understanding of training director's responsibilities. PREREQUISITE: MKTG 3010. [0509-1]

4430. Sales Promotion. (3). (3430) Supplements, supports, and coordinates other two promotional functions of advertising and personal selling. Emphasis on various media associated with sales promotion and on need to coordinate entire promotional mix. PREREQUISITE: MKTG 3010. [0509-1]

4530. International Marketing. (3). Business and promotion of design, trade, industrial marketing, organizations and methods, technical and financial features of international marketing. PREREQUISITE: MKTG 3010. [0513-1]

4610. Transportation and Policy Alternatives. (3). Transportation policy alternatives and problems viewed in relation to their effects on carriers, transport users and general public. Includes: railroads, trucking, air, water, marine, pipelines, including role of regulatory commissions. PREREQUISITE: 6 hours in transportation and logistics courses or permission of department chairman. [0510-1]

4620. Carrier Management. (3). Problems confronting managers of transportation companies including carrier organization, relations, strategic, financial, control, sales, labor relations, and shipper-carrier interaction. PREREQUISITE: 6 hours in transportation and logistics courses or permission of department chairman. [0510-1]

4692. Seminar In Transportation and Logistics. (3). Problems in transportation and logistics. PREREQUISITE: 9 hours in transportation and logistics courses or permission of department chairman. [0510-1]

4720. Cases in Agribusiness. (3). Cases in a mature agribusiness industry where knowledge of past problems has useful application to marketing in the future. [0509-1]

4750. International Agricultural Marketing. (3). Historical background of governmental policies and involvement; international current institutions, service organizations, marketing techniques, and financial considerations involved in international marketing of agricultural products and services. [0513-1]

4901. Management of Marketing Strategies. (3). Comprehensive study of marketing strategies and how implemented. Computer games as a catalyst for learning. Case studies and illustrations application of marketing concepts in practical manner. PREREQUISITES: MKTG 3012, 3610, and 4080. [0509-1]

4910. Problems in Marketing. (1-3). Students carry on apprenticeship projects in marketing under supervisor of state marketing. PREREQUISITE: Junior standing and permission of department chairman. [0509-8]

4991. Marketing Internship. (3). Seniors majoring in marketing, may, after receiving approval of department chairman and professor concerned, obtain actual experience by working minimum of 200 hours in apprenticeship marketing positions. May not earn more than 12 academic hours when enrolling for credit in work experience. [0509-5]

Graduate courses in Marketing. For details of the graduate program see *The Bulletin of The Graduate School*.

OFFICE ADMINISTRATION

PROFESSOR HERMAN F. PATTERSON,
Chairman

Room 300, The College of Business Administration Building

In addition to specific prerequisites, junior standing or permission of the department chairman is a prerequisite for all 3000 and 4000 level courses in *The Fogelman College of Business and Economics*.

5700 OFFICE ADMINISTRATION (OFAD)

1210. Elementary Typewriting. (3). Use and operation of typewriter, mastery of keyboard, simple business and professional letters and reports, introduction to tabulations. [0514-1]

1220. Intermediate Typewriting. (3). Typing of different styles of business letters, tabulations, and manuscripts; developing typing rate of 45 words or more per minute. [0514-1]

1230. Keyboarding and Information Processing. (3). Emphasis development of basic keyboarding skills necessary for keyboarding information. Computer terminals and related software/hardware. Information processing procedures stressed. Computer terminals and related equipment used to develop skills in using computers for business and personal activities.

1240. Fundamentals of Shorthand. (3). Basic principles of Gregg shorthand — alphabet, brief forms, phrases, and abbreviations; beginning dictation and pre-transcription training. Students who have completed one or more units of shorthand in high school may not take OFAD 2120 for credit. [0514-1]

1250. Intermediate Shorthand. (3). Review of shorthand — taking shorthand and transcribing accurate. PREREQUISITES: OFAD 1220 and 2120 or equivalents. [0514-1]

2210. Introduction to Law. (3). Nature and process of law for the legal assistant. Includes such areas as functions of attorney, development of law, overview of system's justice and legal institutions, and survey of scope of law. [0509-1]

2211. Law Office Management. (3). Basic principles of management, organization, techniques and systems for efficient law office operation. [0509-1]

2212. Legal and Office Applications of Accounting. (3). Introduction to accounting theory, emphasis on accounting principles necessary for efficient operation of a law office [0509-1]

2213. Legal Research and Writing I. (3). Emphasis on analysis and research of legal problems, interpretation of legal decisions, and statutory materials, and communication of facts and law. [0509-1]

2214. Legal Research and Writing II. (3). State rules of practice and procedure. Emphasis on drafting pleadings, motions, memoranda of law, and appellate briefs. The Code of Professional Responsibility examined through class discussion of hypothetical cases. PREREQUISITE: OFAD 2213. [0509-1]

2215. Tennessee Courts and Procedure. (3). Introduction to court structure and to Tennessee Rules of Civil Procedure which govern the system. [0509-1]

2216. Family Law. (3). Domestic relations course for the professional legal assistant. Emphasis on law in family law. Includes marriage, women's rights, minor's disabilities, annulment, child custody, and adoption. Primary emphasis on Tennessee statutes and case law. [0509-1]

2221. Small Claims Procedures. (3). Legal and office procedures for handling small claims and collecting accounts, including preparation of legal documents.

3140. Advanced Shorthand. (3). Review of shorthand principles, daily speed practice, development of transcription skill for production of mailable transcripts. PREREQUISITE: OFAD 3250 or OFAD 1220. [0514-1]

3218. Investigation. (3). Legal assistant's role in gathering evidence, interviewing witnesses, searching documents, and preserving facts and evidence gathered for trial. Problems of confidentiality and of formal and informal cooperation with opposing counsel. [0509-1]

3218. Contracts. (3). Study of contract law, definition of contract, capacity of parties, legal effect of offer acceptance, and consideration. Introduction to provisions of Uniform Commercial Code. [0509-1]

3219. Labor Law for Paralegals. (3). History of labor and statutory basis for American law. Grievance and arbitration, employment discrimination, and workers compensation included. [0509-1]

3220. Litigation and Evidence. (3). In-depth coverage of civil litigation in state and federal courts from client interview and jury selection through appeals and rules of evidence with regard to witnesses and documents. State court practice based on Tennessee and Civil Procedure, but with view toward adaptability to other states. [0509-1]

3250. Advanced Typewriting. (3). Review of business letter styles, manuscripts and reports, statistical tables. Development of typing rate of better than 60 words per minute.

3510. Business Communication. (3). Communication applied to solving of business problems. Presentation of oral and written case solutions; emphasis on letters, memorandums, shortreports, and job applications. Selection and use of resources. Ethical and professional communication in or through communication, communicating in political and ethical environment. PREREQUISITE: Freshman English. [0514-1]

4161-4163. Technical Dictation. (3). Only one may be taken for credit. PREREQUISITES: OFAD 2120 and 2121.

4161. Legal. Review of Gregg shorthand theory, shorthand symbols, and terminology needed by a legal stenographer. [0514-1]

4162. Medical. Review of Gregg shorthand theory, shortcuts, vocabulary peculiar to the medical profession. [0514-1]

4163. Scientific. Review of Gregg shorthand theory, specific scientific vocabulary and terminology. [0514-1]

4270. Secretarial Typewriting and Office Machines. (3). Instruction and practice in use of secretarial office machines including executive typewriters, transcribing from voicewriter, audio tape, and magnetic tape, duplicating, copying machines PREREQUISITE: OFAD 3250.

4320. Applied Secretarial Practice. (3). Qualifications, duties and training of secretary, requirements for employment; organization of work, telephone etiquette, business reference books, and methods of time management.

4330. Records Management and Control. (3). Handling of incoming and outgoing mail; filing procedures; installation, administration, and control of geographic, numeric, subject and subject filing systems; practice in several types of filing. [0514-1]

4350. Office Model Simulation. (3). Realistic office-like situation for training students to be secretaries or business education teachers. Students assume roles of "employee" while performing interrelated tasks in office model designed to simulate actual office. PREREQUISITES: OFAD 4270, 4320. [0514-1]

4350. Office Internship. (1-3). Laboratory and office experience for advanced students in business and office education. May be repeated for a maximum of 3 hours. PREREQUISITE: consent of department chairman. [0514-1]

Office for advanced students in business and office education. May be repeated for a maximum of 3 hours. PREREQUISITE: consent of department chairman. [0514-1]

4410-4412. Office Management. (3). Modern methods in office organization and management; scientific office management, office reports, office correspondence, calculating and checking, filing, records retention, duplicating, handling mail, planning procedures, planning for equipment, office layout, automation, management for office space, physical working conditions and office layout. [0514-1]

4420-4422. Word Processing Theory and Concepts. (3). Emphasizes concepts and development of techniques and basic applications of word processing. Includes word processing systems and procedures, equipment selection, layout and design or word processing centers, dictation systems and procedures, and human aspects of word processing systems. [0514-1]

4410-4412. Office Management. (3). Modern methods in office organization and management; scientific office management, office reports, office correspondence, calculating and checking, filing, records retention, duplicating, handling mail, planning procedures, planning for equipment, office layout, automation, management for office space, physical working conditions and office layout. [0514-1]

4410. Problems in Office Administration. (1-3). Directed individual study in major area under supervision of staff member. PREREQUISITE: permission of department chairman. [0514-1]

Graduate Courses in Office Administration — Office Management: For information concerning the graduate program, see *The Bulletin of The Graduate School*.

THE COLLEGE OF COMMUNICATION AND FINE ARTS

K100 COMMUNICATION/FINE ARTS (CCFA)

Students who wish to apply for credit for experiential learning may obtain guidelines from the Dean of the College of Communication and the Arts. Fees for this credit are listed in Section 3. Fees and Charges.

1900-1999. **Introductory Level Experiential Learning** in (descriptive title).

2900-2999. **Intermediate Level Experiential Learning** in (descriptive title).

3900-3999. **Advanced Level Experiential Learning** in (descriptive title).

ART

PROFESSOR

LAWRENCE FIELDING EDWARDS, *Chairman*

Room 201, Jones Hall

Transfer students seeking advanced standing in art are required to submit a portfolio.

K202 ART (ART)

1101. Introduction to Art. (3). Fundamental principles of the arts; understanding of art products and processes as basis for judgment and enjoyment of all types of art expression. *Does not meet degree requirements for the B.F.A. or the B.A. in Art.* [1003-1]

1201. Basic Design. (3). Basic design factors of line, value, texture, form, and space in problem solving approach to stimulate student's visual perception and to encourage inventive manipulation of tools, materials, and techniques. Development of vocabulary for professional practice encouraged through lectures, discussions, and class critique. [1002-1]

1204. Color Fundamentals. (3). Line and color in relation to form. Mixing of colors and color theory. Color chromatics. Relationships. Interaction of color, color harmony, psychology, and symbolism in a variety of mediums. PREREQUISITE: ART 1201. [1002-1]

1311. Beginning Drawing. (3). Introduction to materials and techniques of basic drawing. [1002-1]

1314. Figure Structure. (3). Analysis of structure of human figure; emphasis on contour, gesture, and volume. PREREQUISITE: ART 1311. [1002-1]

2101. World Art I. (3). Development of visual arts from prehistoric times through medieval period; their use by man as social, cultural, and educational force; brief survey of art of Far East. [1003-1]

2102. World Art II. (3). Continues (but does not pre-require) World Art I; development of visual arts from medieval period through Renaissance to present. [1003-1]

2201. Design. (3). Continued study of the elements of design, using variety of materials and methods. PREREQUISITES: ART 1201 and 1204 or permission of instructor. [1002-1]

2202. Graphic Production. (3). (Same as CMUS 2221). Preparation for photographic reproduction; design, selection, and use of type and paper. [1009-1]

2213. Lettering and Layout. (3). (Same as CMUS 2213). Introduction to graphic design; problems involving use of typography; principles and techniques of layout; and development of roughs and comprehensions. [1009-1]

2221. Graphic Production. (3). (Same as CMUS 2221). Preparation for photographic reproduction; design, selection, and use of type and paper. [1009-1]

2233. Interior Drafting Practices. (3). (2231). Introduction to equipment, standards and requirements of interior design drafting practices through lectures and studio space planning assignments. PREREQUISITES: ART 1201, 1311, and 1314 or permission of instructor. [1002-1]

2234. Interior Color and Composition. (3). (2232). Application of color theory and design composition to specific requirements of interior design practice, through lectures and studio assignments. PREREQUISITES: ART 1204 and 2201, or permission of instructor. [1009-1]

2312. Isometric and Perspective Drafting. (3). (2311). One and two point perspective and isometric drafting as drawing processes used to produce design and architectural interiors. [1002-1]

2313. Drawing. (3). Advanced problems of communication through exploration of varied graphic media and methods. PREREQUISITES: ART 1311 and 1314, or permission of instructor. [1009-1]

2314. Drawing. (3). Continuation of ART 2313; emphasis on personal expression. PREREQUISITE: ART 2313, or permission of instructor. [1009-1]

2351. Introduction to Printmaking. (3). Printmaking processes; relief, intaglio, lithography, and stencil, focusing on relief and screenprinting

2511. Sculpture. (3). Introduction to basic materials and techniques of sculpture. [1002-1]

2701. Photography I. (3). (3024). Basic techniques and processes of black and white still photography. History and aesthetics of photography as fine art. Emphasis on personalized perception and seeing photographically. [1011-1]

2702. Photography II. (3). (4224). Exploration of black and white still photography as means to personal expressive statement and self-discovery. Initial emphasis: portraiture. PREREQUISITE: ART 2701 or permission of instructor. [1011-1]

3103. Architecture and the Interior Environment. I. (3). (3101). Historical development of major European periods and styles in, primarily, residential architecture, interiors, decorative arts and furniture from early Renaissance through mid-18th century. [1003-1]

3104. Architecture and the Interior Environment. II. (3). (3102). Historical development of major European periods and styles from mid-18th century into 20th century; comparisons of American developments beginning with mid-17th century. [1003-1]

3221. Graphic Design. (3). Introduction to methods and materials of graphic design, with processes which utilize visual communication. PREREQUISITE: ART 2213 and 2221. [1009-8]

3222. Graphic Design. (3). Continuation of ART 3221, offering further study in techniques of newspaper, magazine, and direct-mail layout. PREREQUISITE: ART 3221. [1009-8]

3223. Packaging and Display. (3). (Same as CMUS 3223). Package design and display techniques. PREREQUISITES: ART 3221 and 3222. [1009-8]

3224. Interior Design. (3). Continuation of ART 3221, offering further study in techniques of newspaper, magazine, and direct-mail layout. PREREQUISITE: ART 3221. [1009-8]

3225. Components of Interiors. (3). (3231). Introduction to resources of interior furnishings industry through lectures and studio assignments; wall and floor coverings; drapery fabrics and upholstery. Development of estimates for wall coverings and window treatments. PREREQUISITES: ART 1204 and 1311, or permission of instructor. [1009-8]

3234. Interior Design Studio. (3). (3232). Application of material covered in basic interior design course to theoretical designs for complete environments. Space planning and furniture design developed through studio assignments. PREREQUISITES: ART 1223, 2234, and 3233, or permission of instructor. [1009-8]

3235. Commercial Lighting Design. (3). (4234). Comprehensive study of lighting sources and principles, color and applications, including circuiting, switching, dimming systems, task-ambient lighting and industry resources. The Lumen Formula and AIA lighting codes. PREREQUISITES: ART 1223, 2234, and 3233, or permission of instructor. [1009-9]

3236. Rendering for Interiors. (3). (4223). Comparative application of variety of techniques using black-white and color mediums for interior perspective illustration. Lectures and studio assignments in line, texture, shade, shadow, volume, color, and perspective. PREREQUISITES: ART 1223, 2234, and 3232, or permission of instructor. [1009-9]

3237. Interior Construction Drafting. (3). (4551). Principles of building construction and their application through drafting for both residential and commercial installations. Building methods and materials studied through lectures and studio assignments. PREREQUISITE: ART 3234 or permission of instructor. [1009-11]

3238. Interior Cabinetmaking Drafting. (3). (4552). Principles of cabinetmaking, wood joints, laminating, contouring and hardware for their application to detail drafting for both commercial and residential cabinet design. Design processes studied through lecture and studio assignments. PREREQUISITE: ART 3237 or permission of instructor. [1009-11]

3240. A Perspective on Contemporary Design Concepts. (3). Studio course which includes study of theories and concepts; emphasis on contemporary materials and methodology investigating traditional and international trends on what a design is and does within broad range of options. PREREQUISITE: ART 2202. [1009-11]

3331. Painting. (3). Preliminary course in theory and practice of oil painting. [1002-8]

3332. Painting. (3). Continuation of ART 3331; attention to essentials of still-life, landscape, and portrait painting. [1002-8]

3335. Intaglio. (3). In-depth study of metal plate intaglio printmaking processes: engraving, drypoint, etching, aquatint. Introduction to color intaglio and mixed media including relief printing. Emphasizes personal expression. PREREQUISITE: ART 2351 or permission of instructor.

3352. Lithography. (3). In-depth study of stone lithography. Introduction to printing with stone, color, and mixed media processes. Emphasis on personal expression. PREREQUISITE: ART 2351 or permission of instructor.

3411. Art Experiences for Elementary Teachers. (3). Introduction to development of skills and methods in school art program; emphasis on materials and ideas important to children's art expression and growth. [0831-1]

3413. Materials and Methods in Teaching Elementary School Art. (3). Art experiences teaching children; encouraging art expression and preparing art teaching materials for children. PREREQUISITES: ART 1101 (or 2101 and 2102) and 3411. [0831-1]

3421. Art Experiences for Secondary School Art Teachers. (3). Art crafts in secondary school art program; work with equipment and processes, and ideas in art craft program. PREREQUISITE: ART 2202 or 3411, or permission of instructor. [0831-1]

3511. Sculpture. (3). Problems of sculptural form as expressed in metal, wood, and related materials. [1002-8]

3512. Sculpture. (3). Continuation of ART 3511; emphasis on techniques. [1002-8]

3523. Ceramics. (3). Introduction to clay and ceramic process. Emphasis on thoughtful, purposeful exploration of medium, regarding both pottery vessel and nonvessel objects. [1009-8]

3524. Ceramics. (3). Continuation of ART 3523. Some consideration to fundamental historical and aesthetic aspects peculiar to ceramics as a studio medium. [1009-8]

3525. Painting and Sculpture. (3). Continuation of ART 3223; attempt to combine painting and sculpture, design, rendering, and practical displays. PREREQUISITE: ART 3223. [1009-8]

3701. Photography III. (3). Continuation of ART 2702. Closer examination of several key photographers' work; emphasis on departure for student work. How student work relates to traditions. PREREQUISITE: ART 2702; junior standing, or permission of instructor. [1011-1]

4121-6121. Ancient Art of the Near East. (3). Architecture, sculpture, painting and minor arts in Egypt and Ancient Near East. [1003-1]

4122-6122. Greek and Roman Art. (3). Architecture, sculpture, and painting from Aegean art to the fall of the Roman Empire. [1003-1]

4131-6131. Early Christian and Byzantine Art. (3). Development of architecture, sculpture, and painting through early medieval art; emphasis on Early Christian and Byzantine art. [1003-1]

4134-6134. Romanesque and Gothic Art. (3). Development of architecture, sculpture, and painting from Carolingian (Proto-Romanesque) Period through Gothic Period. [1003-1]

4141-6141. Art of the Early Renaissance in Italy. (3). Architecture, sculpture and painting of Italy, 1300-1510. [1003-1]

4142-6142. Northern Renaissance Art. (3). Fifteenth century art in Northern Europe; emphasis on panel painting, manuscript illumination, and book arts. [1003-1]

4143-6143. Art of the High Renaissance in Italy. (3). Sixteenth century art in Italy; highlights works of Michelangelo, Raphael, Titian, and the Mannerists. [1003-1]

4166-6166. Baroque Art. (3). Architecture, sculpture, and painting produced in Europe during 17th Century. [1003-1]

4151-6151. Nineteenth-Century Art. (3). Art movements of nineteenth century from Neo-Classicism to Impressionism. [1003-1]

4154-6154. Modern Art I. (3). Major developments in European painting and sculpture from 1890 until World War II; includes Fauvism, Cubism, and Surrealism. [1003-1]

4156-6156. Art Since 1945. (3). Major art movements and contemporary schools of criticism from World War II to Pop Art and Earth Art. [1003-1]

4158-6158. Modern Architecture. (3). Survey of 19th century styles, 20th century master, and contemporary developments in architecture; includes historic preservation. [1003-1]

4162-6162. Spanish Colonial Art. (3). The arts in South America, Mexico, and United States during period of Spanish Rule; Survey of Baroque art in the Americas. [1003-1]

4163-6163. Pre-Columbian Art. (3). Ancient art of Mexico, Central America and South America from about 1000 B.C. to European contact. [1003-1]

4165-6165. Art of North American Indian. (3). Arts of North American Indians from pre-history to present. [1003-1]

4167-6167. Art in America I. (3). American art; architecture, sculpture, painting, and minor arts within continental United States from prehistoric times to Civil War. [1003-1]

4168-6168. Art in America II. (3). Architecture, sculpture, painting and minor arts in continental United States from Civil War period to present. [1003-1]

4181-6181. Primitive Art. (3). Art of primitive Negro of Africa, aboriginal peoples of Oceania, and American Indian. [1003-1]

4182-6182. Topic in Art History. (3). Topic to be repeated when topic is not to measure up to minimum of 3 hours. [1003-1]

4201-6201. Advanced Design — Plastics. (3). Two-dimensional and three-dimensional design in plastics employing basic methods of casting resins and thermoelectric processes using sheet, rod, and tube plastics. [1009-8]

4202-6202. Advanced Design — Plastics. (3). Further development in creative plastics design through thermoelectric processes; including forming, blowing form, and resin casting processes. [1009-8]

4205-6205. Advanced Design — Continuous Pattern Processes. (3). Emphasis on both theoretical and practical approaches to continuous pattern processes using various media and processes techniques. PREREQUISITES: ART 3201, 3204, 3206, 3207, 3208, 3209, 3210, 3211, 3212.

4206-6206. Advanced Design — Continuous Pattern Processes. (3). Continuation of ART 4205; advanced work in constructed pattern processes. PREREQUISITE: ART 4205. [1009-8]

4207-6207. Advanced Color. (3). Depth study of color-primary color concepts for designers and practicing artists. PREREQUISITES: ART 3201 and an understanding of color perception in relation to color organization according to individual student's professional goals. [1009-8]

4208-6208. Advanced Design — Special Problems. (3). Contemporary design issues within mid-south region with specific design fields to be offered by professional designers working in a broad scope of specializations and serving as guest/resident faculty on a rotational basis, when feasible. PREREQUISITE: ART 3240 and/or permission of instructor [1009-9]

4221-2221. Graphic Design. (3). Advanced problems in fields of advertising and merchandising design. PREREQUISITE: ART 3234, 3235, 3236, and 3237 or permission of instructor [1009-8]

4222-2222. Graphic Design. (3). Study and execution of graphics for television, incorporating animation and design for the video environment. PREREQUISITE: ART 4221 or permission of instructor [1009-8]

4237-2327. Interior Design Studio. (3). (4231). Advanced interior design. Computer studio applications, construction, lighting and complete furnishings specifications with samples, concluding with class presentation by student designer. PREREQUISITES: ART 3234, 3235, 3236, and 3237 or permission of instructor [1009-8]

4238-2328. Interior Design Studio. (3). (4232). Further development of design in contemporary interior design, with class presentations. PREREQUISITES: ART 3238, 4237, 4239, or permission of instructor [1009-8]

4240-6240. (4236). Interior Design Internship. (3). Approved off-campus internships, experience in interior design, employed in an interior design firm's studio, retail store or design showroom handling products of interior furnishings industry. Student's training evaluated by employer and interim supervisor. PREREQUISITE: ART 4239 or permission of instructor [1009-8]

4241-6241. Interior Design Internship. (3). Approved off-campus internships, experience in interior design, employed in an interior design firm's studio, retail store or design showroom handling products of interior furnishings industry. Student's training evaluated by employer and interim supervisor. PREREQUISITE: ART 4239 or permission of instructor [1009-8]

4242-6242. Drawing and Painting. (3). Advanced drawing and painting methods, emphasis on transparent watercolor. PREREQUISITE: ART 2313 or permission of instructor [1002-8]

4242-6242. Drawing and Painting. (3). Continuation of ART 4242, attention to various mixed media. PREREQUISITES: ART 3321, attention to various mixed media. PREREQUISITE: ART 3701 or permission of instructor [1002-8]

4243-6243. Painting. (3). Advanced painting methods, presupposing that student has mastered basic techniques and is ready to a more experimental approach to subject. PREREQUISITES: ART 3331 and 3332 or permission of instructor [1002-8]

4243-6243. Painting. (3). Continuation of ART 4243, emphasis on development of personal style. PREREQUISITES: ART 3331, 3332, and 4331, or permission of instructor [1002-8]

4341-6341. Illustration. (3). Survey of many areas requiring skills of illustrator and including preparation of book, magazine, advertising, and television illustrations. [1009-8]

4342-6342. Illustration. (3). Continuation of ART 4341; analysis of fine art techniques of drawing and painting as they apply to book, magazine, advertising, and television illustrations. [1009-8]

4351-6351. Advanced Printmaking I. (3). Specialization in one or two printmaking media with emphasis on development of personal imagery and technical skills. PREREQUISITES: ART 2351, 3351 or 3352, or permission of instructor

4352-6352. Advanced Printmaking II. (3). Advanced work in one or two printmaking media with continued development of personal imagery and advanced technical skills. PREREQUISITES: ART 2351, 3351 or 3352, and 4351, or permission of instructor

4380-6380. Museology. (3). (Same as ANTH 4380). History and development of museums; mandate and variety of institutions; significant research facilities; historical and contemporary collections; administrative roles of museums in contemporary society. [2299-1]

4381-6381. Art Curatorial Techniques. (3). Curatorial responsibilities and functions; receiving and shipping methods; regulation, physical and environmental security, conservation, and study of art market and publications. [1009-1]

4382-6382. Museum Operation. (3). (Same as ANTH 4382). Basic aspects of museum organization, management, exhibit planning and execution, and maintenance of collections and records. [1009-1]

4401-6401. Materials and Methods in Teaching Secondary School Art. (Same as SCED 3321). Understanding adolescent art expression and preparing art teaching materials for secondary school art programs. PREREQUISITES: ART 3421 and 3523, or permission of instructor [0831-1]

4424-6424. Woven and Constructed Fiber Design. (3). Creation of textile designs using various experimental and multi-harvest weaving rug-makers techniques; macrame, applique, stitching, crochet, knitting, and related processes. [1009-8]

4425-6425. Woven and Constructed Fiber Design. (3). Continuation of ART 4424, more advanced work in constructed fiber design. [1009-8]

4511-6511. Sculpture. (3). Advanced work in various sculptural media. PREREQUISITES: ART 2511, 3511, and 3512 or permission of instructor [1002-8]

4512-6512. Sculpture. (3). Continuation of 4511; emphasis on personal expression. PREREQUISITE: ART 4511 or permission of instructor [1002-8]

4521-6521. Ceramic. (3). Advanced studies in ceramic process and technique. Concentration on development of personal attitudes toward work [1009-8]

4522-6522. Ceramics. (3). Technical competence and the production of ceramic objects reflective of genuinely personal involvement. [1009-8]

4531-6531. Jewelry. (3). Jewelry-making; emphasis on materials and equipment. Nature and possibilities of metals, stones and other materials in terms of good jewelry design. Basic projects in engraving, soldering, picking, buffing, and other techniques. PREREQUISITE: ART 3240 and/or permission of instructor [1009-9]

4532-6532. Jewelry. (3). Second course in jewelry-making and metal-work. Study and practice in good design. Work in lost wax casting, champleve, cloisonne, and combinations of materials. [1009-9]

4611. Senior Problems. (3). Original research in student's area of interest, extent of the project to be approved by faculty [1009-9]

4621-6621. Workshop in Art. (3). Specific art problems as they apply to individual student; emphasis on basic art concepts and creative experience. PREREQUISITE: permission of instructor [1009-9]

4622-6622. Workshop in Art. (3). Continuation of ART 4621; providing study of problems appropriate to need of individual student. PREREQUISITE: permission of instructor [1009-8]

4630-6630. Topics in Studio Art. (1-3). May be repeated when topic varies to a maximum of 9 hours. [1002-9]

4635-6635. Topics in Art Education. (1-3). May be repeated when topic varies to a maximum of 9 hours. [0831-9]

4641-6641. Study and Travel in Art. (3 or 6). Travel to important art of world and specialized study under direction of faculty members of the college. [1009-9]

4701-6701. Color Photography. (3). Exploration of photographic perception in color. Survey of history and aesthetics of color photography. Techniques of color photography, emphasis on color printing. PREREQUISITE: ART 2702, junior standing or permission of instructor [1011-1]

4702-6702. Photography Materials and Processes. (3). Advanced technical course exploring various photographic processes in various contemporary and historical photography materials, processes and techniques. Emphasis on aesthetic application of those materials and technique. PREREQUISITE: ART 2702 or permission of instructor [1011-1]

4711. Advanced Photography Seminar. (1-3). Supervised problems course. Emphasis on student's finding personal direction within own work, pursuing that direction, and discussing it in class critique. May be repeated to a maximum of 6 hours. PREREQUISITES: ART 3701 or permission of instructor [1011-8]

4712. Photography Portfolio Seminar. (1-3). Student must make photographs which will be used to produce photography book or portfolio (bound by the student) which represents coherent, individualized expression of the student's certain written ideas. May be repeated, not to exceed 6 hours. PREREQUISITE: ART 4711 or permission of instructor [1011-8]

4721-6721. History of Photography. (3). Visual and technical developments; critical and aesthetic consideration of the photographic image. [1003-1]

JOURNALISM

ASSOCIATE PROFESSOR GERALD C. STONE, Chairman

Room 300, Meeman Journalism Building

K260 JOURNALISM (JOUR)

1700. Survey of Mass Communication. (3). (1011, 1012). Social background scope, functions, and organization of modern communication media; attention to the mass media, its impact on government, social and economic systems. NOTE: Students who have received credit for JOUR 1700 or 1012 may not receive credit for JOUR 1700. [0602-1]

1721. Elementary News Writing. (3). (2111). News story structure and factors that determine value of news, with consideration given to both theoretical and practical aspects of news gathering and reporting. [0602-1]

2123. Editing I. (3). (3112). Practices in headline writing, editing copy, news photograph and study of contemporary editing problems. [0602-1]

2200. The Magazine. (3). (3116). Historical backgrounds, contents, purposes, and readership of general magazines, business and industrial papers and specialized journals. [0602-1]

2300. Survey of Advertising. (3). Exploration of creative and technical aspects of advertising, its impact on consumer and society, and its role in the free enterprise system. [0602-1]

2520. News Photography. (3). (3111). Taking pictures with news camera, developing films, making enlargements, cropping and scaling for publication. Students may bring their own cameras. Open to non-majors with permission of instructor One lecture. [four laboratory hours] [0602-1]

2710. Photography. (3). Study of effective use of type, composition, engineering, styling, printing and graphic design in both black-and-white and color. [0602-1]

3123. News Feature Writing. (3). Fundamentals of non-fiction feature writing for newspapers, magazines, company publications and broadcast news presentations. Story ideas, personal experiences and complex news-related features developed. [0602-1]

3125. Editing II. (2). (3113). Emphasis on practical editing applications. Students are charged with production of *The Helmsman*. PREREQUISITE: JOUR 2123. [0602-8]

3205. Magazine Article Writing. (3) (3121, 3122). Introduction to free-lance writing techniques. Preparing queries and articles for submission. Generating and researching ideas appropriate for the magazine market. NOTE: Students who have received credit for JOUR 3121 or 3122 may not receive credit for JOUR 3205. [0602-1]

3214. Magazine Editing and Production. (3). (3117). Editing and production problems of magazines; emphasis on business, industrial, and home periodicals; medium and title production. PREREQUISITE: JOUR 2200. [0602-1]

3222. Advertising Layout. (3) (3210). Basic techniques in laying out printed advertisement; introduction to use of advertising mail service in layout. [0602-1]

3324. Advertising Copy Writing. (3). (3221). Principles of writing copy; emphasizing the use of copy to prove techniques for effective copy; approximately half of course devoted to practice in writing copy and preparing rough layouts. [0602-1]

3335. Advertising Sales. (3). (3223). Practical experience in selling advertising; selling of completed advertisements; student will service own clients throughout semester; using *The Helmsman* as a space medium [0604-1]

3400. Introduction to Public Relations. (3). (4222). Development, scope, and modern role of public relations, emphasis on public relations in business and government; relationship with major public relations tools and practices. [0604-1]

3422. Public Relations Techniques. (3). (4223). Booklet production, writing news releases, preparing visual speeches, producing slide presentations, writing annual reports, planning and budgeting, and other tasks customarily assigned to students in practice as public relations practitioners. PREREQUISITE: JOUR 3400. [0609-1]

3525. Advanced Press Photography. (3). (4008). Skills of visual communication. Assignments designed for relevance to evening daily news. Emphasis on picture stories, including how to present them; layout. PREREQUISITE: JOUR 2520 or permission of instructor. [0609-1]

3527. Photojournalism. (3). (3011). Emphasis on picture use and management in daily press. Potential and limitations of photography as editorial tool. Open to upper-division students who do not have a concentration in photography. [0599-1]

3625. Radio and Television News Writing and Editing. (3). (3333). Processing of news for radio and television; attention to present-day styles used by electronic media. PREREQUISITE: JOUR 2121. [0603-1]

3627. Radio and Television Reporting of Special Events. (3). (3333). Preparation and presentation of special programs such as news, sports, interviews, documentaries. PREREQUISITE: JOUR 3625. [0603-1]

3700. History of Journalism. (3). (4005). Origin and development of American journalism; students who enroll should have completed JOUR 1700 or 1012. PREREQUISITE: JOUR 3700. [0603-1]

3720. Reporting. (3). (2121). Gathering and writing news of the University community with assignments arranged on *The Helmsman*. Three lecture, one laboratory hour per week. PREREQUISITE: JOUR 2121. [0602-1]

3800. Journalism Seminar. (1). Informal presentation by a guest lecturer in a basic area in the field of journalistic enterprise. Students prepare for discussion sessions through assigned readings. May be repeated for a maximum of 2 hours credit. PREREQUISITE: junior standing. [0601-1]

4120. Reporting Public Issues. (3). (4245). Analyzing and writing news reports about government, politics, energy, economy, taxes, education, environment, medicine, and other stresses threatening between current issues and public's need to be informed. Emphasis on topics vital to large urban society. PREREQUISITE: JOUR 3720. [0601-1]

4121. Writing Internships. (1-2). (4002, 4003, 4330, or 4430). Work in practical assignments in local business or organization of qualified practitioners. NOTE: Students who have received credit for JOUR 4120, 4003, 4330, or 4430 may not receive credit for JOUR 4121. PREREQUISITE: permission of instructor. [0601-1]

4327. Advertising Strategies. (3). (4100). Researching, planning, writing, scheduling, budgeting, and evaluating complete advertising campaign. Includes media selection, layouts, tales, storyboards, and preparation of detailed budgets for advertising media or service. PREREQUISITE: JOUR 3322, 3324 and permission of instructor. [0604-1]

4330. Advertising Internship. (2). (4000). Work under supervision of qualified practitioners in local advertising agency, advertising department of newspaper, television, or radio station, or company advertising department. NOTE: Students who have received credit for JOUR 4120 or 4330 may not receive credit for JOUR 4330. PREREQUISITES: JOUR 3322, 3324 and permission of instructor. [0601-1]

4332. Public Relations Internship. (2). (4242). Work experience as intern with public relations department or organization, or on team project assigned by instructor. Experience includes analysis of public relations plan and evaluation of its implementation. NOTE: Students who have received credit for JOUR 4120 or 4330 may not receive credit for JOUR 4332. PREREQUISITE: JOUR 4423 and permission of instructor. [0609-1]

4529. Electronic Reporting. (3). (3334). Theory and practice of gathering and presenting news in radio and television. Focus on operating procedures in commercial electronic media as they relate to news procedures and on practical experience with roles and functions in news departments. PREREQUISITE: JOUR 3625. [0602-1]

4700. Mass Communication Law. (3). (S001). Organ and development of legal principles affecting law of libel, expression and printing, of laws of libel, slander, copyright and other statutes limiting communication in fields of publishing and broadcasting. [0601-1]

4702. Current Trends in Journalism. (3). (3332). Advanced study of recent, current problems faced by the press and media in print and electronic. Emphasis on the role of mass media in looking toward future communication technologies. [0601-1]

4704. Theories of Communication. (3). (Same as COMM 4704). Comparison of theories offered to explain character or effects of mass communication media ranging from Stimulus-Response Theory to Agenda-Setting Theory. [0601-1]

4706. Newsroom Management. (3). (4030). Policy and regulatory aspects of news management; personnel and technical factors governing news production and programming; analysis of news operations. [0603-1]

4708. Journalism Professional Ethics. (3). Classical approaches to ethics presented with application to the day-to-day considerations a journalist must face in working with employers, local publics and the larger society which depends on a free and responsible press. [0601-1]

4726-6726. Journalism Research Methods. (3). (4175-6175). Familiarization with research analysis, survey research, data analysis and field studies as applied to journalism, media and public relations decision makers. Modern research techniques and class project using computer analysis. PREREQUISITE: JOUR 2121 or permission of instructor. [0602-1]

4830. Direct Broadcast. (3). (1-3). Individual study, research, or practical or one-hour per week supervision. PREREQUISITE: Permission of instructor. NOTE: May be repeated for a maximum of 3 hours credit during undergraduate education. [0602-5]

MUSIC

PROFESSOR DAVID R. WILLIAMS, Chairman

Room 123B, Music Building

APPLICATION AND AUDITION PROCEDURES: Special application and audition procedures are required. See the description of the music programs in section 7, Colleges and Degree Programs.

Piano Proficiency. All undergraduate music students must carry out a piano placement examination prior to enrolling in applied music courses in the Department of Music. All music majors must pass the piano proficiency examination before the beginning of the senior year. This may be done in either of two ways: (1) by passing the piano placement exam in MUSE 1001, or (2) by passing without credit the piano proficiency exam based on the student's area of major study, given once each semester. An official notice will be mailed to the student and appropriate professor in the Department of Music concerning the piano proficiency exam. After successful completion of the piano proficiency examination, music students whose major instrument is not piano may be accepted for major group or private piano instruction (Theory and Composition students may be accepted for piano instruction by arrangement) before passing the proficiency examination with the permission of their division heads and the permission of the Piano Division coordinator. Transfer students must take the proficiency examination during the first semester of residence or enrollment in Class Piano at the appropriate level.

K 307 MUSIC THEORY AND COMPOSITION (MUTC)

Placement in the Music Theory sequence for undergraduates will be determined through examination.

1001. Basic Music Theory. (2). For students who plan to major in music but do not meet minimum standards for MUTC 1006. Not all students as credit toward the satisfaction of requirements for the major or minor. Two laboratory hours per week. [1004-1]

1002. Aural Music Theory I. (1). Sight-singing and ear-training techniques using material studied in MUTC 1006. Keyboard harmonic analysis. Two laboratory hours per week. PREREQUISITE: MUTC 1001. [1004-1]

1003. Aural Music Theory II. (1). More difficult unison and easier two-, three- and four-part materials. Two laboratory hours per week. PREREQUISITE: permission of the instructor. [1004-1]

1004. Music Theory I. (3). (1004). Basic notation, scales, intervals, triads, key signatures, analysis and exploration of technical material and written exercises in historical areas of plianct through late 16th century. COREQUISITE: MUTC 1011. PREREQUISITE: Theory placement exam. [1004-1]

1005. Music Theory II. (3). (1005). Four part structures, analysis and written exercises in historical areas of 17th and 18th century through J.S. Bach. COREQUISITE: MUTC 1011. PREREQUISITE: Theory placement exam. [5/U only]. [1004-1]

1010. Aural Theory I. (1). (1004). Beginning ear training: scales, intervals, key signatures, line and simple harmonic parts; examination of combinations of common folk and model materials. COREQUISITE: MUTC 1008. PREREQUISITE: Theory placement exam. [5/U only]. [1004-1]

1011. Aural Theory II. (1). (1005). Ear training involving triads in sequences, two part exercises, modulatory melodies; sight-singing of 17th and 18th century melodies; examples. COREQUISITE: MUTC 1009. PREREQUISITE: MUTC 1010, 1008. [5/U only]. [1004-1]

2008. Music Theory III. (3). (1006). Continuation of four part structure, part writing and figured bass; expanded harmonic materials from ninth chords through chordal mutation; formal

and chordal analysis from Bach through mid-19th century. COREQUISITE: MUTC 2010. PREREQUISITE: MUTC 1009, 1011. [1004-1]

2009. Music Theory III. (1). (1006). Ear training involving expanded harmonic materials, modulatory melodic, two part examples with modulation, sight-singing of 18th and 19th century melodic examples. COREQUISITE: MUTC 2008. PREREQUISITE: MUTC 1011, 1009. (S/U only). [1004-1]

250. Composition. (2). Classroom composition and composition, emphasis on written music. May be repeated for additional credit. PREREQUISITE: MUTC 1008. NOTE: Composition taught as applied music. Students receive the equivalent of one half-hour lesson per week. Fee for this instruction is \$60 per semester. [1004-1]

2502. Composition. (2). Works for piano, voice, chorus, and small ensembles; study of style and analysis of works from music literature. May be repeated for additional credit. PREREQUISITE: MUTC 2501 or permission of instructor. NOTE: Composition taught as applied music. Students receive equivalent of one half-hour lesson per week. Fee for this instruction is \$60 per semester. [1004-1]

2511. Introductory Electronic Music. (2). Emphasis on basic techniques of electronic music composition through work in tape manipulation, synthesis, performance, multichannel, electronic instruments of electronic music. PREREQUISITE: MUTC 2008 or permission of instructor. FEE \$60. [1004-1]

2008. Music Theory IV. (3). (3001). Continuation of late 19th century harmonic structures; introduction of popular music and its notational symbols; introduction and use of 20th century theories analysis and writing examples from 20th century. COREQUISITE: MUTC 3009. PREREQUISITE: MUTC 2008, 2010. [1004-1]

3009. Aural Theory IV. (1). (3001). Ear training involving expanded 19th century harmonic considerations, 20th century chromaticism and pidiatonicism; two part examples from 17th and 18th century; introduction to 19th century harmonizing melodies of 20th century. COREQUISITE: MUTC 3009. PREREQUISITE: MUTC 2010, 2008. (S/U only). [1004-1]

3010. Aural Theory V. (1). (3002). Aural exploration of basic forms, cadences and styles of music; detailed aural analysis of modulatory elements within a piece. PREREQUISITE: MUTC 3009, 3008. [1004-1]

3101. Advanced Orchestration. (3). Basic study of instruments of orchestra and band; terminology and techniques appropriate to that study; practical application by scoring for small and large instrumental combinations. PREREQUISITE: MUTC 3008, 3009, or permission of instructor. [1004-1]

3102. Advanced Music Theory. (3). (3003). Theoretical and practical use of scale-composition, counterpoint, Renaissance to the present. PREREQUISITE: MUTC 3101, 3100. [1004-1]

3103. Advanced Orchestration. (3). Arranging of piano, organ, and choral compositions for full orchestra and chamber ensemble. PREREQUISITE: MUTC 3101. [1004-1]

3105. Sixteenth Century Counterpoint. (2). Modal contrapuntal techniques of 16th century; writing in two and three parts; analysis of Palestrina and Lassus analysis. PREREQUISITE: MUTC 3008. [1004-1]

3106. Eighteenth Century Counterpoint. (2). Contrapuntal techniques of 18th century; writing in two or four parts canon and fugue. PREREQUISITE: MUTC 2008. [1004-1]

3108. Twentieth Century Counterpoint. (2). Contrapuntal techniques of 20th century; analysis of serial techniques in contemporary style. PREREQUISITE: MUTC 3105 or 3106. [1004-1]

4101. Compositional Techniques of the Twentieth Century. (3). Writing course employing harmonic and contrapuntal techniques and devices from Debussy to present. [1004-1]

4104. Pedagogy of Theory. (3). Classroom procedures. Demonstrations by students and instruction in teaching rudiments of music theory, including vocal, piano, and ear-training. PREREQUISITE: MUTC 3102. [1004-1]

4201. Studies in Music Theory and Composition. (1-3). Directed individual or class instruction in selected areas of music theory amid composition chosen in consultation with instructor. May be repeated for credit to a maximum of 6 semesters hours with permission of department chairman. [1004-8]

4202-6202. Seminar: Music Theory and Analysis. (3). Advanced course in theory, counterpoint, and analysis of literature. Counterpoint and harmonic techniques. Research: theoretical and practical pedagogical point of view; writing, singing, and free style. Recommended as review course for graduate students. PREREQUISITE: permission of instructor. [1004-1]

4203. Critical Studies in Music. (3). Directed research in music history, theory and literature; study in depth related to major composition area; required of theory majors. Term paper. [1004-8]

4501-6501. Composition. (2 or 4). Composition in varied forms for large and small ensembles and solo instruments; analysis of contemporary and practical application of the term paper. May be repeated for credit. PREREQUISITE: recommendation of upper division examination committee. NOTE: Composition taught as applied music. Students receive equivalent of one half-hour lesson per week. Fee for this instruction is \$60 per semester. [1004-1]

4502. Composition. (2 or 4). Non-Complex compositions. (3). Class instruction in free composition for students not majoring in composition. Practical experience in idea generation, form, development, and instrumentation. PREREQUISITE: MUTC 3008. May be repeated for credit. PREREQUISITE: composition. Students receive equivalent of one half-hour lesson per week. Fee for this instruction is \$30 per semester. [1004-8]

4511. Intermediate Electronic Music. (2). Emphasis on basic techniques through work in tape manipulation, study of history and aesthetics of electronic music. The two hours credit earned from this course may be utilized as composition credit

toward composition concentration. PREREQUISITE: for music majors only with permission of instructor. FEE: \$60.00 [1004-8]

4542. Advanced Electronic Music. (2). Continuation of MUTC 4511. For individual composition projects. May be repeated for credit; but only two hours credit earned may be utilized as composition credit in composition concentration. FEE: \$60. [1004-8]

4599. Senior Composition Recital. (1). (1004-8)

K 304 MUSIC HISTORY, LITERATURE, AND APPRECIATION (MUHL)

1101. Music Appreciation. (3). Introduction to music through study of its literature and history; significant compositions oriented to their proper social, cultural, economic and political background; individual composition projects. May be repeated and enjoyed by music. Open to students without prerequisite to non-music majors. Attendance at some concerts sponsored by Music Department may be required. [1006-1]

1102. Jazz Appreciation. (3). Introduction to jazz; emphasis on nature and processes of jazz and particularly on its historical background and development in United States. Open to non-music majors. [1006-1]

3301. History of Music to 1700. (3). Development of significant musical styles; individual contribution of major composers. PREREQUISITE: MUTC 2008 or permission of instructor. [1006-1]

3302. History of Music Since 1700. (3). Continuation of MUHL 3301. PREREQUISITE: MUTC 2008 or permission of instructor. [1006-1]

4001. Piano Repertory. (3). Survey of stringed keyboard repertory from Bach and his contemporaries to the present. Representative works analyzed in regard to historical style, formal structure, and instrumentation. Open to students without previous training in music or permission of instructor. [1004-8]

4004. Survey of Chamber Music for Piano. (2). Study of development of works for piano and one other instrument, piano trios, piano quartets and quintets, stylistic analyses of works from classic, romantic, impressionistic, early 20th century, and avant-garde repertory. PREREQUISITE: permission of instructor. [1004-8]

4005-6005. History and Literature of the Organ I. (3). Literature for the organ and its effect on interaction with organ design. To 1700. [1006-1]

4006-6006. History and Literature of the Organ II. (3). 1700 to the present. [1006-1]

4251-6251. Collegium Musicum: Laboratory in Music History. (3). Use of tube, note, recorder, other early musical instruments and voice in performance of early music; primary sources (facsimiles of early prints, MSS, and works performed); practical work in preparation of performance. May be repeated for credit, but not for the purpose of improving the grade originally given. [1006-1]

4407-6407. The Opera and Music Drama. (3). Survey of opera before Richard Wagner; Wagner's music dramas and musical significance of his contemporaries, dramatist and musical significance of his contemporaries, dramatist and musical significance of his contemporaries. PREREQUISITE: permission of instructor. [1004-8]

4408-6408. Style Periods in Music History. (3). Music and history. Data from various periods of Western, musical history. May be repeated for credit when topic varies. [1006-1]

001 MEDIEVAL MUSIC

002 RENAISSANCE MUSIC

003 BAROQUE MUSIC

004 CLASSIC MUSIC

005 ROMANTIC MUSIC

006 20th CENTURY MUSIC

4601. Comparative Arts. (3). Cultural activities in their interrelation with each other and with corresponding historic and economic events. Open without prerequisite to non-music majors of junior and senior standing. [1004-9]

4800-6800. Musical Styles. (3). Musical styles and role of music in performance, preliterate and folk societies throughout world. [1006-1]

4801-6801. American Folk and Popular Music. (3). Folk and popular elements in American music. Role of mass media, especially phonograph record, in utilizing and changing folk music. Historical development and interrelationships of various musical styles ranging from 19th century minstrelsy to rock and roll. Emphasis on southern Anglo-American and Afro-American folk and popular musical styles. [1006-1]

4802-6802. Topics in American Folk and Popular Music. (3). Characteristics and development of a particular form of American folk or popular music. Topics include the following: [1006-1]

001 AFRO-AMERICAN FOLK MUSIC

002 BLUES

003 AMERICAN FOLK SPIRITUAL AND GOSPEL MUSIC

004 ANGLO-AMERICAN FOLK MUSIC

005 HISTORY OF COUNTRY AND WESTERN MUSIC

006 HISTORY OF ROCK AND ROLL MUSIC

007 HISTORY OF JAZZ

008 HISTORY OF ROCK/POP

009 MEMPHIS MUSIC

010 FOLK/POP/MUSIC OF THE MID-SOUTH

K316 SACRED MUSIC (MUSA)

4001-6001. Judee-Christian Music. (3.) History of church music from temple to 1000 A.D. Considerable emphasis on Hebrew music, its use as reflected in scripture and the form and use of service music in present day temples. Music for sabbath and sabbath services. [1006-8]

4101. Basic Organ Instruction. (3.) Practical keyboard work in performance of basic music used in liturgical and non-liturgical services. Includes keyboard harmony, modulation and simple improvisation. NOTE: Taught as applied music. Students receive equivalent of 2 half-hour lessons per week. Fee for this instruction is \$60.00 per semester.

4104-6104. Sacred Organ Music in History. (2.) Practical organ choral in important works in trustee, choral or hymn-tune preludes in pattern styles, and embellished melodic lines with harmonic accompaniments. Emphasis on keyboard harmony and reading from figured basses. PREREQUISITE: permission of department chairman. [1006-8]

4104-6104. Sacred Organ Music in History and Practice I. (3.) Survey of Jewish and Christian sacred music, exploring origins of styles, traditions, and current practices.

4105-6105. Sacred Music in History and Practice II. (3.)

4001-6801. Studies In Sacred Music. (1-3.) Directed individual or class study in selected areas of music chosen in consultation with instructor. May be repeated for credit with permission of department chairman. May not exceed 6 hours credit. [2303-8]

K318 APPLIED MUSIC (MUAP)

Applied music is offered at three levels: (1) major group instruction, (2) lower division, and (3) upper division. Lessons are given by members of the university faculty and by special instructors. The size of the number of students who can be accepted is limited. It is anticipated that student enrollment will easily be able to be assured a place with the requested teacher. Practice facilities are provided without charge, but there are additional fees to the individual lessons.

All music majors must enroll in an ensemble each semester except the extra credit hours taken in the summer. Non-music majors enrolled at Memphis State University are allowed to seek students may enroll and be accepted for instruction where such time is available. If accepted for applied instruction, non-music majors may not ensemble and will not be eligible to participate in ensemble sponsored by the Department of Music. For additional details see **LARGE MUSICAL ORGANIZATIONS** in this section of the **Bulletin**.

All jazz and studio bass majors must simultaneously be enrolled in classical bass, MUAP 1541, for a total of six semester hours or until a level of proficiency equal to entrance into upper division is attained.

All jazz and studio guitar majors must take six semester hours of classical guitar which is the maximum allotted for credit toward the degree. If a student can meet the requirements in less time, and wishes to discontinue classical study, the student may do so with permission of the instructor and must be accepted into another class. If a student fails to meet a student cannot meet the requirements after six semester hours of study, it is the student's responsibility to pursue classical guitar as an elective or until such time as requirements meet to the satisfaction of the guitar and jazz studio faculty.

Fees: In addition to the regular student fees, all persons taking applied music will be assessed \$30.00 per semester for each half-hour lesson. Students registering for one (1) semester credit will receive one half-hour lesson per week. All others will receive one hour lesson per week regardless of credit hours.

REGISTRATION: Students will register for lessons in the same manner and at the same time as they register for other courses; however, a student may not be assigned to a course unless the student has registered. Auditions are held in the Music Building during the pre-orientation, admissions and registration periods before each semester. Auditions may be scheduled in the Music Office, Room 123, Music Building. Any inquiries concerning credit or course numbers should be directed to the Chair of the Department of Music.

CHEDDIE AND GATES: A student may register for one or two hours credit per semester and will be assigned to individual lessons, a master class, or a combination of the two, commensurate with his level of performance. Additional credit may be earned at the lower division and upper division level. Students enrolling more than two credits per semester will be assigned additional practice time as expected to meet a level higher than those students registered for fewer credits. Grades are awarded on the same basis and have the same significance as in other subjects.

EXAMINATIONS: For an examination in applied music, each student must register and perform for members of the faculty or the Department of Music suitable musical selections and technical exercises of a grade of difficulty appropriate to his standing. Examinations are held in designated rooms on days set aside for this purpose near the end of each semester. Credit for the course will not be awarded to any student who fails to take the examination.

1000. Applied Music Workshop. (3.) This course is required of all music majors for eight semesters and of all music education students for seven semesters. Attendance at 14 recitals per semester required. (S/U only). [1004-8]

4002-6002. Song Repertory I. (2.) Survey of Italian repertoire from 17th century to present. Comprehensive study of music and poetry of the German lied. The Cycle. Recital planning.

4003-6003. Song Repertory II. (2.) Development of French repertoire. The Nationalist school. English song literature from Baroque to the present. The American song with emphasis on the 20th century literature.

4799. Conducting Recital. (1.) [1004-8]

4801-6801. Studies in Applied Music. (1-3.) Directed individual or class instruction in applied area not listed under MUAP. May be repeated, not to exceed 6 semester hours credit. PREREQUISITE: permission of department chairman. [1004-8]

MAJOR GROUP INSTRUCTION: Any student of the University may audition for lessons in the major group level except in organ. Organ students must have the ability to play the piano before beginning organ instruction. A student may not receive more than four hours credit in any one area of major group instruction. The fee for major group instruction will be the same as for one half-hour lesson per week, \$30.00 per semester.

LOWER DIVISION COURSES: Applied music courses in the lower division include the study normally carried out during the freshman and sophomore years. The piano or instrumental student at this level should have had one year of study before applying to University enrollment so that he has a secure, reliable, and well-grounded technique on his instrument. Organ students may begin at this level provided that they play the piano well and have reasonable ability in sight-reading. The fee for lower division instruction will be the same as for major group instruction. Students will register for Piano MUAP 1310. To be admitted to lower division study a student must first pass a qualifying examination.

Students who fall short of the requirements for admission to the lower division may be advised to register for major group instruction until differences in ability and course numbers will be able to be assigned for each semester of study.

UPPER DIVISION COURSES: Promotion to the upper division does not follow automatically after the completion of four semesters of courses in the lower division but is made only on the recommendation of the upper division examining committee. Such a recommendation will be given only if the student's proficiency as a performer bears promise of future artistic and professional qualities as a soloist. It is at this level that the student normally begins preparation for a recital.

JUNIOR AND SENIOR RECITALS: The student does three recitals per year. For each recital credit a student must be enrolled in upper division applied music. All required recitals must be approved by the faculty. This is normally accomplished no later than two weeks prior to the scheduled date of the recital. If the student's program is performed for a faculty committee only upon successful completion of this hearing may a student confirm the scheduled date and make arrangements for the printing of the program.

Bachelor of Music majors with concentration in chamber music must accompany two full recitals or the equivalent.

PREREQUISITE: participation in University examination for woodwind, brass, strings, and piano. Students should register for the semester he intends to complete requirements.

For details regarding recommended and/or required recital literature see the Memphis State University Music Department Handbook.

SMALL ENSEMBLES AND CHAMBER MUSIC: Advanced students are encouraged (and for certain degree programs required) to participate in small ensembles. Selection for membership is based on audition; courses may be repeated by the approval of the student's advisor. Three one-hour meetings per week.

3101. Brass Ensemble. (1.) Practical applications of brass instruments for brass ensemble, one performer to a part, one to a part, or parts of brass chamber ensemble, one performer to a part, suite of brass chamber music. PREREQUISITE: permission of instructor. [1004-8]

3103. Jazz Combo. (1.) Practical application of basic jazz improvisatory skills; combo experiences in all jazz styles: traditional, bop, contemporary. Audition required. [1004-8]

3105. Chamber Ensemble for Piano. (1.) Applied work in piano ensemble, chamber ensemble, and chamber music for wood-winds, brasses, strings, and vocalists. [1004-8]

3401. Percussion Ensemble. (1.) Study and performance of selected traditional, contemporary, avant-garde and pops percussion literature. Open to students in percussion concentration and others through audition. [1004-8]

3402. String Ensemble. (1.) Study and performance literature written for Grit instruments, including bass, percussion, unpitched percussion, and keyboard. [1004-8]

3501. String Ensemble. (1.) Study and performance of string chamber music repertoire. Coaching sessions weekly with a number of music faculty. Open to music majors and non-music majors through audition. [1004-8]

3601. Camerata Singers. (1.) Small Choral Ensemble. Chamber repertoire from Renaissance to present. Open to music majors and non-music majors through audition. [1004-8]

3602. Opera Workshop. (1-6.) [1004-1]

3603. Opera Soloists. (1.) Preparation and performance of role in major production of University Opera Theater. Audition required. [1004-8]

3604. Opera Production Laboratory. (1-6.) [1004-8]

3701. Woodwind Ensemble. (1.) Study and performance of original and transcribed works for varied combinations of woodwind instruments. Audition required. [1004-8]

LARGE MUSICAL ORGANIZATIONS [1004-1]

Membership in one of large ensembles is required of music majors. (Exception to this are pedagogy and chamber music with concentrations in Performance, Pedagogy, or Chamber Music). Guitarists, who are required to have a minimum of 6 semesters of large ensemble: Commercial Music majors in Performance, who are required to have 8 semesters of the appropriate level jazz ensemble, and Commercial Music majors in Composi-

tion/Arranging, who are required to have 4 semesters of the appropriate level jazz ensemble.) Generally, wind and percussion performers are to participate in an instrumental ensemble, vocal performers are to participate in vocal ensemble, piano, keyboard, and guitar performers are to participate in a vocal organization unless assigned to a large instrumental ensemble. Transfer students lacking sufficient large ensemble credits may partially fulfill their large ensemble requirement by serving as ensemble in a small ensemble with a maximum of 2 credit hours of small ensemble applicable to the total large ensemble requirement. Ensemble assignments are based on audition and may be repeated. Any exception to this large ensemble requirement will be subject to a review of petitions by the department chairman, the appropriate ensemble director, and the applied studio teacher.

2001. University Concert Band. (1.)

001 UNIVERSITY CONCERT BAND Performance of traditional and contemporary wind compositions. Participants chosen from this ensemble for basketball pep-bands. Open to music majors and non-music majors. [1004-1]

002 VARSITY BAND Concert performance of traditional and contemporary wind compositions. Participants are chosen from this ensemble for basketball pep-bands and used to participate in Football marching bands. Open to music majors and non-music majors. [1004-1]

2002. Marching Band. (2.) Selected ensemble which performs at all home football games and occasional out-of-town games in each season. Rehearsals approximately ten hours weekly. Open to music majors and non-music majors. [1004-1]

2003. University Glee Club. (1.) Study and performance of various works from different styles periods. Development of singing voice, rhythmic and sight-singing skills. Open to music and non-music majors. [1004-1]

2004. University Black Gospel Choir. (1.) Ensemble open to all students. Music includes contemporary gospel, spirituals, and gospel hymns. Seminar as well for students interested in music ministry and music ministry. Open to music majors as elective. Two class meetings per week. [1004-1]

2004. University Wind Ensemble. (1.) Select ensemble of instrumentalists. Study and performance of outstanding repertoire for wind ensembles. Open to music majors and non-music majors through audition. [1004-1]

2005. University Orchestra. (1.) Study and performance of major orchestra literature. Additional opportunities for chamber orchestra and chamber ensemble performance. Audition required. [1004-1]

3006. University Chorale. (1.) [1004-1]

001 UNIVERSITY CHORALE Study and performance of choral works from broad spectrum of choral literature, sacred, secular, accompanied and a cappella. Open to music majors and non-music majors through audition. [1004-1]

002 UNIVERSITY CONCERT CHOIR [1004-1]

003. Opera Chorus. (1.) Choral ensemble for opera production with exploration of related stage techniques. Extra rehearsals at discretion of conductor. Audition required [1004-1]

001 OPERA CHORUS MU**002 OPERA CHORUS OPERA MEMPHIS**

3008. Oratorio Chorus. (1.) Study and performance of major works primarily oratorio in nature. Open to music majors, non-music majors and the off-campus community. Audition required. [1004-1]

3010. University Jazz Ensemble. (1.) [3102.] Study and performance of varied jazz styles, including repertoire from standard big band literature as well as studio ensembles. Participation in a jazz reading section may be required. Open to music majors and non-majors through audition. This course will have large ensemble requirements for Commercial Music majors only.

3111. Recording Studio Lab Ensemble. (3.) To perform and record works written by students in Commercial Music program.

001 Recording Orchestra for Instrumental Performance.

002 Recording Ensemble for Studio Singers

This course will meet large ensemble requirements for Commercial Music majors only

K313 MUSIC EDUCATION (MUSE)

FIELD OF ENDOWMENTS FOR TEACHING This field of endowment may be chosen in honor of a Music faculty and in School Music (choral). Normally a student can expect to be recommended in only one of these areas. School Music (choral emphasis) applicants should be able to play piano accompaniments of average difficulty, should possess an adequate solo voice for vocal solo work, and should be able to sing in a variety of choral activities. Instrumental Music applicants may satisfactorily meet piano and voice requirements with completion of either MUSE 1108 and MUSE 1109, with their prerequisite. Study in one or more of the major emphasis areas and participation in concert and marching bands, orchestra and a variety of smaller ensembles will also be required. A graduation recital is required of all students who expect to graduate with the Bachelor of Applied Education with a concentration in School Music (choral) or Instrumental Music. The following courses, MUSE 1101 through 1104, are designed to teach the music education major, already a competent performer in one field, the playing techniques of the major instruments of band and orchestra, and the methods of instructing others in these techniques. Practice facilities are provided and there are no additional fees.

1100. Class Piano for Non-music Majors. (2.) Beginning instruction in piano for non-music majors. Development of basic reading and performance skills. Two laboratory hours and minimum of five hours preparation per week. [1004-1]

1101. Class Instruction in Brass Instruments. (2). Basic performance skills and teaching techniques on trumpet, trombone, French horn, baritone horn, and tuba for those who intend to teach instrumental music in schools. Two laboratory hours per week. [0832-1]

1103. Class Instruction in Percussion Methods. (2). Basic performance skills and teaching techniques on snare drum, timpani, and keyboard percussion instruments for those who intend to teach instrumental music in schools. Two laboratory hours per week. [0832-1]

1104. Class Instruction in Woodwind Instruments. (2). Basic performance skills and teaching techniques on clarinet, flute, saxophone, oboe, and bassoon for those who intend to teach instrumental music in schools. Two laboratory hours per week. [0832-1]

1105. Class Instruction in Piano. (2). Basic technique, with emphasis on sight-reading. [1004-1]

1106. Class Instruction in Piano. (2). Playing of songs used in school music teaching; community songs, and hymns. PRE-REQUISITE: MUSE 1105. [1004-1]

1109. Class Instruction in Stringed Instruments. (1). Basic performance skills and teaching techniques on violin, viola, cello, and bass for those who intend to teach instrumental music in schools. Two laboratory hours per week. [0832-1]

1110. Class Instruction in Stringed Instruments. (1). Continuation of 1109. Two laboratory hours per week. [0832-1]

1111. Class Instruction in Guitar. (1). Functional accompanying skills as commonly used in folk and popular music. Basic and intermediate performance technique appropriate to the student's ability. May be repeated once for additional credit. [1004-1]

1112. Class Instruction in Voice. (1). Fundamentals of vocal production useful for all music teachers. Two laboratory hours per week. [1004-1]

1113. Class Instruction in Voice. (1). Continuation of 1112 with more emphasis on solo singing of easy songs. Two laboratory hours per week. [1004-1]

1115. Class Instruction in Guitar and Recorder. (2). Development of basic performance and teaching skills in guitar and recorder. Analysis of teaching materials and repertoire applicable for elementary and secondary education. Integration of guitar and recorder into classroom music and choral music ensembles. PRE-REQUISITE: MUTO 1009. Open only to music majors or by special permission of instructor. [0832-1]

2017. Class Instruction in Piano. (2). (1107) Simpler Bach chorales, more difficult songs, and accompaniments, appropriate to the student's level. Final memorization required. PRE-REQUISITE: CMUS 1106. [1004-1]

2018. Class Instruction in Piano. (2). (1108) Selected easier studies and compositions by Czerny, Concone, Beethoven, Chopin, Schumann, Bartok, and others. Final examination includes materials to satisfy core requirements (abcd) of the piano pedagogy examination. Textbooks available in music office. PRE-REQUISITE: MUSE 2107. [1004-1]

3001. Classroom Music Methods I. (3). Required of all Elementary Education majors. Experiences in singing, moving, listening, performing, and describing simple music appropriate for use in the elementary school. [0832-1]

3700. Basic Conducting. (2). Development of conducting skills. Basic baton, priming, rhythmic analysis, expressive techniques, and musicality. Class meetings required. Class meetings require performing as instrumentalist or vocalist as well as conductor. Three class hours per week. PRE-REQUISITE: Completion of MUTC 3008. [1004-1]

3708. Score Reading. (2). Reading of open score at the keyboard, musical score, small orchestra, and large orchestra scores; clefs, transpositions, etc.; employing literature from various periods of music history. [1004-1]

4001-6001. Orff-Schulwerk Workshop for Classroom Teachers. (3). Broad, practical introduction to use of Orff-Schulwerk method of elementary music teaching. Development of performance leadership skills stressed. Not open to music majors. PRE-REQUISITE: one course in music methods or equivalent experience. [0832-1]

4201-6201. Special Problems in the Teaching of Music. (1-3). Class or individual study of problems and opportunities offered by persons who teach music in schools or classroom teachers, music teachers, supervisors, principals, and administrators. May be repeated, but not for the purpose of changing a previous grade, for maximum of 6 semester hours credit. [0832-8]

4202. Materials and Methods of Classroom Music. (3). (Same as SCED 3322) Philosophy, methods, and materials for teaching non-performance music classes in secondary school, grades 7-12. Includes demonstration, observations, and simulation of classroom teaching at that level. [0832-1]

4204. Instructional Material in Elementary and Secondary Education. (2). Designed for the elementary and secondary teacher to teach basic music concepts to beginners in mixed instrumental group settings. Instruction methodologies and materials, simple instructional arranging, instrument assignments, and instructional maintenance stresses Lab experience. PRE-REQUISITE: one course in music. [0832-1]

4205-6205. Marching Band Techniques. (2). Organizing and conducting the marching band; gridiron drill and marching procedures with a study of precision drill, formations and pageantry. PRE-REQUISITE: permission of the instructor. [0832-1]

4206-6206. Music for Exceptional Children. (3). Types of exceptional children, and implications for providing realistic musical activities in the classroom. Emphasis on use of music as a tool in reaching non-musical goals such as language development, social adjustments, motor coordination, and aural

and visual perception (team taught with Special Education). PRE-REQUISITE: SPER 2000 for music education majors; MUSE 1009 for special education majors, or permission of instructor. [0832-1]

4207. Choral Methods and Materials. (2). Selected materials and methods of practical concern to the vocal-choral music specialist. Consideration of music series, scheduling techniques, voice class development, choral publishers, uses of studio recordings, and other aspects of choral performance. [0832-1]

4208-6208. Band Literature. (3). History and evolution of wind instruments and wind instrument playing and the history and development of the wind band and its literature, with general background material on the specific composers involved. [0832-1]

4209-6209. Band Tuning and Regals. (2). Concentrated study of the basic techniques involved in piano tuning and adjustment. Some basic tools are required. [0832-1]

4210. Instrument Repair. (2). Study of construction and maintenance of all common musical instruments, frequently encountered by repair problems which must be handled immediately. Some basic tools required. May be repeated for credit when topic varies. [0832-1]

001 STRINGED INSTRUMENTS
002 BRASS INSTRUMENTS
003 WOODWIND INSTRUMENTS

4301-6301. Choral Arranging. (3). Practical experience in making arrangements for choral ensembles and organizations. Study of vocal needs involved and techniques of meeting them, including class performance and evaluation of assigned projects. [1004-1]

4401. History of Educational Philosophies. (3). Historical, philosophical, psychological, social, and aesthetic foundations of the total education programs, grades K through 12. Administrative procedures and problems. The music educator's role in the community. Evaluative techniques. [1004-1]

4501. Basic Piano Pedagogy. (3). Emphasis on elementary piano methods including Pace, Suzuki, and class techniques. PRE-REQUISITE: permission of instructor. [0832-8]

4503. Advanced Piano Pedagogy. (3). Approaches to the teaching of piano technique, repertoire, and musicianship. For upper division piano majors. PRE-REQUISITE: upper division level in keyboard. [0832-1]

4504-6504. String Pedagogy. (3). Various methods of teaching strings with special emphasis on contemporary theories of pedagogy; observation and laboratory teaching in MSU String Preparatory and the Suzuki Talent Education Divisions. For string students. PRE-REQUISITE: permission of the instructor. [0832-1]

4505-6505. Principles of Accompanying. (3). Performance class, involving practical study of instrumental and vocal standard repertoire and the problems of ensemble playing. Focus in sight-reading and ability to assimilate music rapidly. Scores, musical repertoires, and music realization are introduced as skills necessary to well rounded musicianship. PRE-REQUISITE: permission of instructor. [1004-8]

4506-6506. Introduction to Suzuki Talent Education for Strings. (3). Required of students who plan to serve as apprenticeship teaching assistants in the Suzuki Talent Education program. Basic training in the Suzuki philosophy, participation with parents and children in Suzuki string classes. [0832-1]

4507. Organ Pedagogy. (2). Repertoire materials suitable for fundamental technique as well as methodology in techniques, analysis, and repertoire choice. PRE-REQUISITE: permission of instructor. [0832-1]

4508-6508. Principles of Suzuki Piano. (3). Suzuki philosophy applied to development of the child's abilities and the role of the teacher and parent. Students will analyze the technical and musical instruction of the beginning piano student. [0832-1]

4509-6509. Suzuki Violin Literature and Technique. (3). Literature and technique taught in the Suzuki Violin School: fundamental technique, development of posture, tone, and listening ability in beginning students; analysis of pedagogical methods and development of students who plan to serve as apprenticeship teachers in the MSU Suzuki String Program. PRE-REQUISITE: MUSE 4506.

4511-6511. Class Piano Pedagogy. (3). Group instruction techniques in the teaching of beginning, intermediate, and early advanced piano. Emphasizes observation and practical application. For the piano major and/or prospective piano teacher. PRE-REQUISITE: Upper division level in keyboard or permission of instructor.

4700. Instrumental Conducting. (2). (3701). Various problems encountered in preparation and conducting of instrumental scores; individual practice with the opportunity for each student to conduct instrumental music. Three class hours per week. PRE-REQUISITE: MUSE 3700. [1004-1]

4701. Choral Conducting. (2). Various problems encountered in preparing and conducting traditional and contemporary vocal scores; rehearsal techniques; individual practice with the opportunity for each student to conduct vocal music. Three class hours per week. PRE-REQUISITE: MUSE 3700. [1004-1]

4801-6801. Teaching Music Comprehensively. (3). Methods course designed to bring music theory, history, literature, performance, composition, and analysis to bear on the teaching of music at all levels, elementary, junior high, high school, college, and graduate school. [1004-1]

4802-6802. Introductory Workshop in Orff-Schulwerk. (3). Basic Orff-Schulwerk techniques including body movement, soprano recorder, percussion, vocal performance, improvisation, and arranging. PRE-REQUISITE: junior standing in music education or permission of instructor. [0832-1]

4803. Intermediate Workshop in Orff-Schulwerk. (3). Intermediate level Orff techniques including modal harmonization, irregular rhythms, alto recorder performances and more extensive improvisation and arranging. PRE-REQUISITE: MUSE 4802 or its equivalent in experience. [0832-1]

4804-6804. Teacher's Workshop in Orff-Schulwerk. (3). Advanced Orff-Schulwerk techniques including original composition, complex form, movement and instrumental arrangements, and expanded performance, and advanced improvisation. PRE-REQUISITE: MUSE 4803 or its equivalent in experience. [0832-1]

K 320 COMMERCIAL MUSIC (CMUS)

1116. Class Instruction in Piano: Jazz/Pop/Commercial. (2).

1117. Class Instruction in Piano: Jazz/Pop/Commercial. (2). Class instruction in jazz, pop, and commercial music piano styles; basic harmonic patterns, chord symbols, and various chord progressions. PRE-REQUISITE: MUSE 1105 or equivalency exam. [1009-1]

1118. Electronics Technology I. (3). (Same as TECH 1111). Introduction to fundamental electrical and electronic theory and devices, circuit and network theorems, with laboratory emphasis on basic electrical measurements and the proper use of instruments. PRE-REQUISITE: MATH 1213. [1009-1]

2101. Music Theory: Jazz/Pop/Commercial I. (3). (MUTC 1001). Theoretical jazz, pop, and commercial music styles. Basic harmonic theory, chord symbols, chord structures, notation, articulation, rhythmic patterns, analysis of written and recorded jazz, pop, and commercial music; transcription of recorded materials. PRE-REQUISITE: MUTC 1009. [1009-1]

2102. Music Theory: Jazz/Pop/Commercial II. (3). (MUTC 1002). Theoretical jazz, pop, and commercial music styles. Basic harmonic theory, chord symbols, chord structures, notation, articulation, rhythmic patterns, analysis of written and recorded jazz, pop, and commercial music; transcription of recorded materials. PRE-REQUISITE: MUTC 1009. [1009-1]

2213. Lettering and Layout. (3). (Same as ART 2213). Introduction to graphic design problems involving use of typography; principles and techniques of layout; and development of roughs and comprehensives. [1002-1]

2221. Graphic Production. (3). (Same as ART 2221). Preparation of technical, photographic reproduction. Printing processes, halftones, line reproduction, selection and use of type and paper. [1009-1]

2501. Composition/Arranging: Jazz/Commercial I. (3). Class instruction in jazz and commercial music composition and arranging with emphasis on small instrumental and vocal groups and basic styles. PRE-REQUISITE: CMUS 2101 or permission of instructor. NOTE: Composition is taught as applied music. Students receive the equivalent of one half-hour lesson per week. The fee for this instruction is \$30.00 [1009-1]

2502. Composition/Arranging: Jazz/Commercial II. (3). Individual instruction in jazz and commercial music composition and arranging. Small instrumental and vocal groups and basic styles. PRE-REQUISITE: CMUS 2101 or permission of instructor. NOTE: Composition is taught as applied music. Students receive the equivalent of one hour lesson per week. The fee for this instruction is \$60.00 [1009-8]

3100. Promotion and Management of Artists. (3). Problems in management and promotion of recording artists. Attention to management, recording procedures, booking, and personal appearance contracts; concert promotions and personal appearances as they relate to development of artist. A portfolio will be completed. PRE-REQUISITE: CMUS 3223. [1009-1]

3101. Record Promotion and Sales. (3). Current practices in promotion and sale of recordings. Emphasis on radio station music formats and other methods of exposing recordings to the public. Sale portion examines wholesale, one-step, rack, and retail store sale of recordings. [1009-1]

3102. Anatomy of Popular Song. (3). Analysis of current popular music; techniques of setting text, choice of text and musical style; development of line. PRE-REQUISITE: CMUS 2501 or permission of instructor. [1009-1]

3223. Packaging and Display. (3). (Same as ART 3223). Package design and display techniques. PRE-REQUISITES: CMUS 2123 and 2221. [1009-1]

3542. Production Laboratory. (1-3). (Same as THEA 3542). Preparation for and participation in departmental theatre productions. Individualized work in form of supervised laboratory situations. Training crews for season production settings, participating sections. May be repeated for credit. [1009-8]

001 PUBLICITY (1)
002 COSTUMES (1)
003 LIGHTS (1)

004 SOUND (1)
005 SCENERY (1)
006 PROPS (1)

007 MAKE-UP (1)
008 HOUSE MANAGEMENT (1)
009 SPECIAL EFFECTS (2) Instruction in how to safely create stage fires, explosions, smoke, rain, snow, thunder, lightning, supernatural illusions, etc. Offered alternate year.

010 SOUND SYSTEMS AND DESIGN (3). Classes and lab work. Basic electronics and acoustics. Classes and lab work. Basic electronics and acoustics. Classes and lab work. Basic electronics and acoustics. Offered alternate years. PRE-REQUISITE: permission of instructor

3800. Recording Studio Procedures. (3). Fundamental course in recording/engineering; understanding the language, layout, and functional components of the recording studio and equipment; general maintenance procedures. PRE-REQUISITE: CMUS 3223.

3801. Studio Synthesizers. (3). Study of each module of synthesizer system; interfacing of modules and use of instrument for signal processing and composition; correlation of audible presentation of a tone with wave-shape display. PRE-REQUISITES: TECH or CMUS 1811, CMUS 3800.

3823. Television and Film Production and Aesthetics I. (4). (Same as COMM 3823). Basic production skills and theory; studio control, recording, still photography, studio and small-format TV production. Aesthetics of sound and moving image. Demands one hour lecture, two hours laboratory. PREREQUISITE: permission of instructor. [1099-8]

3824. Television and Film Production and Aesthetics II. (4). (Same as COMM 3824). Intermediate production skills and theory; audio mixing including film sound, motion picture photography and editing, graphics, TV production, Aesthetics of moving image. Production of exercise. Three hours lecture/demands two hours laboratory. PREREQUISITE: CMUS 3823. [1099-8]

3825. Materials and Techniques of Improvisation I. (3). Development of improvisation skills on solo instruments or voice; basic chord patterns, scales, arpeggios; performance with rhythm section. PREREQUISITE: CMUS 2101 or permission of instructor.

001 INSTRUMENTAL
002 VOICE

3826. Materials and Techniques of Improvisation II. (3). Analysis of melodic structures; motivic fragmentation and sequencing; extended harmonic structures; articulatory variation; performance in small combo settings. PREREQUISITE: CMUS 3825 or permission of instructor.

001 INSTRUMENTAL
002 VOICE

3827. Materials and Techniques of Improvisation III. (3). Analysis and performance of music in standard styles, including bebop, Latin, third stream, soft rock, hard rock, and commercial performance. PREREQUISITE: CMUS 3825 or permission of instructor. PREREQUISITE: CMUS 3826 or permission of instructor.

001 INSTRUMENTAL

002 VOICE

3828. Aesthetics and Analysis of Jazz and Commercial Music Styles. (3). Fundamentals of form and style analysis; study of the artistic and commercial intentions and appropriateness of music from early popular styles to the present. PREREQUISITE: CMUS 3825 or permission of instructor.

3861. Acoustical Equipment and Studio Techniques. (3). (Same as TECH 3861). Application and operation of microphones, magnetic tape recorders, signal processing equipment, recording studio consoles, noise reduction devices, speakers, and studio session procedures. Three lecture/two

laboratory hours per week. PREREQUISITES: TECH or CMUS 4800 (CMUS majors only); CMUS 3800.

4102-6102. Composer's Workshop: Jazz/Commercial. (3). (MUTC 4102) Composition in musical styles for various sizes of instrumental and vocal groups; writing for commercials, jingles, and studio techniques. PREREQUISITE: CMUS 2502. [1099-8]

4103-6103. Jazz and Studio Ensemble Techniques. (3). (MUTC 4103) Jazz and studio performance styles, emphasizing arranging, ensemble technique, articulation, phrasing, recording studio techniques, and conducting. [1099-1]

001 INSTRUMENTAL PERFORMANCE

4200. Studies in Commercial Music. (1-3). Class or individual study of commercial music. Commercial Music may be repeated if course content differs. [1099-8]

4501. Composition/Arranging: Jazz/Commercial III. (3). Advanced individual instruction in jazz and commercial music composition and arranging. Large and small ensembles, various media; composition for studio orchestra. PREREQUISITE: CMUS 2502 or permission of instructor. NOT CREDITABLE for CMUS 2502 or any other music course. Students receive one hour lesson per week. The fee for this instruction is \$60.00. [1099-8]

4502. Introduction to Film Scoring and Editing. (3). Basic problems of writing music for film, commercials, shorts, and full length productions; selection of appropriate styles; introduction to film scoring assignments for 16mm and 35mm film; writing from a cue sheet. PREREQUISITE: CMUS 2502 or permission of instructor. [1099-1]

4602. Introduction to Commercial Music. (3). (MUHL 4602). Industry including copyright, royalties, producing, labor relations, promotion, advertising, and distribution. [1099-1]

4603-6603. Proseminar in Commercial Music. (3). (MUHL 4603). Study of commercial music, with lectures and discussions by experts from the industry. Individual projects required. PREREQUISITE: CMUS 4602 or permission of instructor. [1099-1]

4604. Basic Recording. (3). Engineering the recording session; microphone selection and placement; console operation; editing, mixing. PREREQUISITES: CMUS 3801, 3860, permission of instructor.

4801. Problems in Recording. (1-3). Independent projects in recording. May be repeated to maximum of nine hours, but

not for purpose of changing grade originally given. PREREQUISITES: CMUS 4800, permission of instructor.

4802. Advanced Recording. (3). Use of sophisticated equipment and advanced techniques in sound recording process. PREREQUISITE: CMUS 4800 or permission of instructor. [1099-1]

4803. Digital Recording. (3). Basic concepts of digital recording; introduction to digital recording equipment and techniques. PREREQUISITE: CMUS 4802. [1099-1]

4804. Recording Studio Operation. (3). Overview of entire operation requirements of a recording studio; management and scheduling problems. PREREQUISITE: CMUS 4802 or permission of instructor. [1099-1]

4805. Disc Recording. (3). Principles, mechanics and techniques of tape-to-disc transfer. PREREQUISITE: CMUS 4802. [1099-1]

4831. Radio and Television Sales and Advertising. (3). (Same as COMM 4831). Relation of radio and television advertising to station, network, and station representative; role of sponsors, agencies, and allied groups. PREREQUISITE: CMUS 3823. [1099-1]

4867. Project in Commercial Music. (3-4). Final project in commercial music performance and composition; detailed proposal developed by student and main advisor. [1099-8]

001. PERFORMANCE PROJECT. (3). Project must include live and recorded performances demonstrating the student's mastery of various styles of jazz, popular, and commercial music performance.

002. COMPOSITION PROJECT. (3). Project must include compositions demonstrating the student in various styles of jazz, popular, and commercial music; live performance; music for part of an album; film score with film.

4899. Professional Commercial Music Seminar. (3-12). Independent project resulting in sufficient material to constitute one long-playing album or an extensive promotional campaign. Required of students for placement membership. May be repeated for up to 12 hours credit. [1099-8]

4999. Internship. (3-12). Minimum of one semester of field work experience in selected area(s) of the music industry. May be repeated for up to 12 hours credit. PREREQUISITE: placement interview and completion of program in Recording Engineering or Music Business.

APPLIED MUSIC COURSES

Instrument	Major Group	Lower Division	Upper Division	Junior Recital	Senior Recital
	Instruction (2) [1004-8]	(1-4 each) [1004-8]	(1-6 each) [1004-8]	(1 each) [1004-8]	(1 each) [1004-8]
Trumpet	1110	1111	4111-6111	4118	4119
Horn	1120	1121	4121-6121	4128	4129
Trombone	1130	1131	4131-6131	4138	4139
Tuba	1140	1141	4141-6141	4148	4149
Piano	1310	1311	4311-6311	4318	4319
Harpsichord	—	1321	4321-6321	4328	4329
Organ	—	1331	4331-6331	4338	4339
Accompanying	—	—	—	4348	4349
Percussion	1410	1411	4411-6411	4418	4419
Violin	1510	1511	4511-6511	4518	4519
Viola	1520	1521	4521-6521	4528	4529
Cello	1530	1531	4531-6531	4538	4539
Bass	1540	1541	4541-6541	4548	4549
Guitar	1550	1551	4551- —	4558	4559
Harp	1560	1561	4561-6561	4568	4569
Viola da Gamba	1570	1571	4571-6571	4578	4579
Voice	1610	1611	4611-6611	4618	4619
Flute	1710	1711	4711-6711	4718	4719
Oboe	1720	1721	4721-6721	4728	4729
Clarinet	1730	1731	4731-6731	4738	4739
Saxophone	1740	1741	4741-6741	4748	4749
Bassoon	1750	1751	4751-6751	4758	4759
Recorder	1760	1761	4761-6761	—	—

THEATRE AND COMMUNICATION ARTS

PROFESSOR MICHAEL M. OSBORN,
Chairman

Room 143, Theatre and Communication Arts Building

The Department of Theatre and Communication Arts offers concentrations in general speech and theatre, dance, broadcasting, communication, film and videotape production, and theatre; requirements for these and B.F.A. degree are found in Section 1, *Curriculum and Academic Programs*.

NOTE: Students may take *Theatre and communication arts laboratory courses* (i.e. COMM 3101, THEMA 3541, 3542) as often as advisor will allow. *None of these courses may be repeated for the purpose of improving the grade originally given.*

K491 THEATRE (THEA)

Dr. James Keith Kennedy, Director

1212. Voice and Articulation for the Performer. (4). Especially for the actor, concentrates on voice-body mechanism as it responds to communicative image. NOTE: Students who have received credit for SPCH 1211 or COMM 1211 may not receive credit for THEA 1212 or COMM 1212.

1411. Basic Oral Interpretation. (3). Introduction to interpretation of literature in performance. To develop and heighten performer's responsiveness to his literary text. [1007-1]

1551. Introduction to Theatre. (3). Consideration of all dramatic elements of theatre from viewpoint of audience. Discussions of theory and practice of plays as they are produced by class drama. [1007-1] THEA 3541-3542 [1007-1]

1561. Introduction to Design. (3). Historical and conceptual survey of basic elements of production — scenery, costumes, lighting, sound — and their relation to theatrical production processes. [1007-1]

2501. Stage Movement. (3). Introduction to movement as basic element of theatre. Includes recognition, development, and understanding of natural physical actions and rhythms and their application to stage. [1007-1]

2502. Theatre Dance. (3). Introduction to elements of movement patterns and rhythms for stage. PREREQUISITE: THEA 2501. [1007-1]

2511. Theatre Crafts. (3). Lecture/laboratory covering all phases of craft skills and equipment involved in technical theatre production. [1007-1]

2512. Introduction to Theatre Graphics. (3). Introduction to artistic graphic communication processes of technical theatre. Includes methodology and importance of beginning sketching, design, costume, and set design, as well as poster and program graphics. [1007-1]

2515. Stage Make-up. (3). Lecture/laboratory class in which fundamentals of theatrical make-up are studied through a series of make-up projects including corrective make-up, fantasy, mask and beard make-up. [1007-1]

2530. Acting for Non-Majors. (3). Introduction to craft of acting for non-majors. Emphasis on individual potential through basic technique. Performance of short scenes in class. [1007-1]

2531. Basic Acting Techniques. (3). First essential of acting study: exploration of the actor. Class exercises to develop release, concentration, imagination, and improvisation skills. [1007-1]

2532. Character Development. (3). Principles of role analysis through study of subtext, character motivation, and objectives. PREREQUISITE: THEA 2531 or permission of instructor. [1007-1]

3411. Performance of Poetic Forms. (3). (SPCH 2411). In-depth study of poetic literature as interpreted by the performer. To develop and heighten performer's sensitivity to language styles and rhythms. [1007-1]

3412. Interpretation Experiments. (3). (SPCH 2412). Intensive study of dramatic image. Creative exercises in imaginative use of space and experimental script materials in directing for the stage. [1007-1]

3451. Directing Narrative Theatre. (3). Theory and techniques in staging of experimental forms; poetic, narrative, and scripted scripts. [1007-1]

3461. Interpretation of Black Literature. (3). Principles and practice related to oral interpretation of poems, speeches, and plays written by Black Americans. PREREQUISITE: THEA 1411.

3505. Movement Styles I. (3). Techniques and choreography in different movement styles. PREREQUISITE: THEA 2501.

3506. Movement Styles II. (3). Movement and dance of different cultures and areas such as mime and masks. PREREQUISITE: THEA 3505.

3511. Stagecraft I. (3). Lecture/laboratory includes theatre terminology, theatre forms, production organization, job descriptions, and safety. Scenery construction to include painting, flat, three-dimensional scenery, and introduction to materials. Required lab work. PREREQUISITE: THEA 2511 or 2512. [1007-1]

3512. Stagecraft II. (3). Lecture/laboratory includes shifting scenery, flying, rigging, properties design, and construction. Lectures and discussions in colour in theatre and scenery painting, construction and methods. Required lab work. PREREQUISITE: THEA 3511. [1007-1]

3520. Directing for Non-Majors. (3). Theoretical and practical application of directing techniques. Short scenes staged for class. NOTE: Will not count as an elective for a major or minor in Theatre. [1007-1]

3521. Directing. (3). Basic organizational techniques of stage direction. [1007-1]

3523. Lyric Theatre. (3). Analysis of earlier and related music-theatre forms, but focus on the "musical" as a unique theatrical form. Selected scenes directed and performed. [1007-1]

3525. Scene Study. (3). Development of ensemble work within scenes. PREREQUISITE: THEA 2532. [1007-1]

3526. Advanced Scene Study. (3). Continuation of 3523. Attention to material from modern classics. PREREQUISITE: THEA 3531. [1007-1]

3541. Performance Laboratory. (1-3). (3401). Practical application laboratory for performance courses and special workshops. [1007-1] THEA 3541 [1007-1]

001. ACTING TECHNIQUE. (1). To be taken in conjunction with 2531/2532 — Section 1 only.

002. ACTING TECHNIQUES. (1). To be taken in conjunction with 2531/2532 — Section 2 only.

003. SCENE STUDY. (1). To be taken with 3531/3532 only.

004. STYLES. (1). To be taken with 4531/4532 or 6531/6532 only.

005. STYLING/DEPARTMENTAL PREPARATION. (1). Weekly meeting to review/critique actors' work in rehearsals and progress.

006. VOICE TECHNIQUES. (1). For students seeking critical review and help with preparation and delivery of musical pieces.

007. STAGE MANAGEMENT. (1). Lecture and training sessions precede actual assignment to departmental production. Stage managers work closely with directors and oversee entire backstage operation during production run.

008. ANALYSIS. (1). Critical perceptions of Performance (and Production) skills developed through written critiques and evaluation at least 5 theatrical productions (afternoon and evening). May be taken in conjunction with THEA 1551. Guidelines of critique content/format available in Theatre Office (143).

009. NON-MAJORS. (1). For students (not theatre majors) who do or want to come involved in Seaside or Litchfield productions. A theatre faculty member helps students prepare for auditions.

010. TV/FILM. (1). To be taken with 4631-6631 only.

011. TOURING. (1). In conjunction with departmental ensemble groups only.

012. MUSIC-THEATRE WORKSHOP. (1). To be taken with THEA 3523 (Lyric Theatre), or as part of Summer Program.

013. TOURING. (2). In conjunction with departmental ensemble groups only.

014. MUSIC-THEATRE WORKSHOP. (2). Summer Program.

015. MUSIC-THEATRE WORKSHOP. (3). Summer Program.

3542. Production Laboratory. (1-3). (3501). (Same as CHUS 3542). Preparation for and participation in departmental theatre productions. Individualized work is in form of supervised laboratory situations. Running crews for season production selected from participating sections. May be repeated for credit. [1007-8]

001. PUBLICITY. (1).

002. COSTUMES. (1).

003. LIGHTS. (1).

004. SOUND. (1).

005. SCENERY. (1).

006. PROPS. (1).

007. MAKE-UP. (1).

008. HOUSE MANAGEMENT. (1).

3543. Technical Theatre. (1-3). Instruction in how to safely create fire, fire extinguishers, smoke, stage lighting, rigging, lighting, supernaturals, special effects. Offered alternate years. PREREQUISITE: permission of instructor.

010. SOUND SYSTEMS AND DESIGN. (3). Classes and lab work. Basic electronics and system hookups. Actual equipment used and studied. Offered alternate years. PREREQUISITE: permission of instructor.

3561. Scene Design. (3). New materials and methods of rendering theatrical scene designs. Includes water color, acrylic, three dimensional models, and other media. [1007-1]

4401-6401. Interpretation of Children's Literature. (3). Adaptation of literature for children and group performances in children's theatre, and in instruction for elementary school children. Includes styles of literature, principles of performance, and techniques for performance adaptation. May be repeated for up to 6 hours credit with permission of instructor. [1007-1]

4411-6411. Stage Diagnos. (3). Study and practice of foreign dialects for American stage. Offered alternate years. PREREQUISITE: COMM 1211. [1007-1]

4421-6421. Interpretation of Poetry. (3). Performer's response to related poems and plays. Focus on reality in poetry. Offered alternate years. PREREQUISITE: THEA 3411. [1007-1]

4421-6431. Interpretation of the Novel. (3). Studies in oral interpretation of prose fiction; attention to various literary styles and structures. PREREQUISITE: THEA 3411. [1007-1]

4441-6441. Interpretation of Drama. (3). Group performance, acting, and narrative theatre styles. May be repeated for a maximum of 9 hours. PREREQUISITE: Audition for Moving Line Company.

4451-6451. Interpretation of Shakespeare. (3). Studies in oral presentation of scenes from selected comedies, histories, and tragedies, with exploration of character and dramatic structure. [1007-1]

Theatre and Communication Arts

4501-6501. Advanced Movement Styles. (3). Further development of technique, and refinement of personal as well as period styles. PREREQUISITE: THEA 3506. [1007-1]

4502-6502. Ensemble Movement. (3). Performance troupe develops improvisational techniques, voice, mime, acting, and physical movement. PREREQUISITE: permission of instructor. [1007-1]

4503-6503. Creative Dramatics. (3). Basic techniques and theories for use of dramatization in elementary and secondary education. Includes socio-drama, dramatization of school subjects and daily concerns, and improvisation and creation of dramatic situations. PREREQUISITE: [1007-1]

4511-6511. Lighting and Sound Mechanics. (3). (3513) introductory study of technical principles which support areas of theatrical lighting and sound design. Includes instrumentation and equipment, electricity and electronics, control systems, spotlights, and stage lighting. Offered alternate years. PREREQUISITE: [1007-1]

4515-6515. Scene Painting. (3). (SPCH 4563). Lecture/laboratory covering techniques of painterly scenography for stage. Offered alternate years. PREREQUISITE: THEA 3561. [1007-1]

4516-6516. Technical Direction. (3). Lecture/laboratory for the technical director. Includes production organization and safety, engineering, rigging, materials control and supply ordering. Offered alternate years. PREREQUISITE: THEA 3512. [1007-1]

4517-6517. Materials and Technology. (3). Lecture/laboratory with general introduction to materials includes carpentry and lumber, metal-working and welding, fiberglass construction and casting, rigid and flexible foams and thermoplastics. Offered alternate years. PREREQUISITE: THEA 3512. [1007-1]

4521-6521. Advanced Directing. (3). Opportunity to experiment with directing original plays, adaptations, and period styles. Productions of class for the Lunchbox Theatre program. May be repeated for maximum of 6 hours. PREREQUISITE: [1007-1]

4523-6523. Children's Theatre. (3). Exploration of theories and styles of children's theatre, application of principles to problems in production and preparation of plays designed for children's audiences. May be repeated for up to 6 hours credit with permission of instructor. [1007-1]

4525-6525. Costume History. (3). Development of acting styles as influenced by environments of historical periods. May be repeated for maximum of 6 hours. PREREQUISITE: THEA 3532. [1007-1]

4532-6532. Advanced Acting Styles. (3). Continued work in acting styles. Offered alternate years for maximum of 6 hours. PREREQUISITE: THEA 4531. [1007-1]

4541. Internship. (1-6). (4011). Supervised work in actual university, community, or professional theatre productions on internship basis. Credit varies with amount of time and responsibility involved. May be repeated for a maximum of 12 semester hours. PREREQUISITE: permission of Director of Theatre. [1007-1]

4551-6551. Theatre History — Classic. (3). (SPCH 3551). Shaping forces and theatrical forms in Western civilization from Greek times to Romanticism. [1007-1]

4552-6552. Theatre History — Modern. (3). (SPCH 3552). Continued study of theatre from 1900 to the present. [1007-1]

4553. Directed Individual Studies in Theatre. (1-3). For advanced student who wishes to do concentrated study in specific area of theatre. May be repeated for maximum of six hours. PREREQUISITE: permission of instructor. [1007-8]

4554-6554. Costume History. (3). Survey of clothing fashions from primitive times to present; special emphasis on psychological implications of fashion change applicable to theatre. [1007-1]

4556-6556. Undergraduate Seminar in Black Theatre. (3). (4566). Selected topics in contemporary black theatre. May be repeated up to six hours. PREREQUISITE: permission of instructor. [1007-1]

4562-6562. Costume Design. (3). Theory and techniques of costume design studied through series of design assignments. Study of color, line, fabric, and rendering styles. Special consideration given to character interpretation. PREREQUISITE: THEA 4561. [1007-1]

4564-6564. Scenography. (3). Total production design — coordination of all aspects of costume, scenery, and lighting within whole of production. (May be repeated for maximum of 6 hours.) PREREQUISITE: THEA 4569. [1007-1]

4565-6565. Applied Lecture in Design. (3). Lecture / discussion course covering all phases of design. PREREQUISITE: permission to include design techniques, basic pattern, drafting and drafting techniques, costume prop construction, military techniques. [1007-1]

4567-6567. Lighting. (3). (SPCH 4512). Lecture / discussion / practical investigation of art of professional lighting design. Includes script analysis, design approaches and methodologies, procedures and practices for working designer, cue techniques, design styles and forms, and criticism of lighting design. PREREQUISITE: permission of instructor. [1007-1]

4568-6568. Advanced Lighting and Sound Design. (3). Lecture / seminar / practical investigation of arts of lighting and sound design. Includes conceptual development of design, interpretation in the photographic process, survey of forms and styles and special design procedures. PREREQUISITE: permission of instructor. THEA 4561. [1007-1]

4569-6569. Styles of Design. (3). (SPCH 3562). Historical, critical and practical approaches to major styles of production, including contemporary theatre. PREREQUISITE: THEA 3561. [1007-1]

4571-6571. Playwriting. (3). Theory and principles of writing plays for stage. Practice in writing either short or long play. May be repeated for maximum of 9 semester hours. PREREQUISITE: permission of instructor. [1007-8]

4581-6581. Dramatic Theory and Criticism. (3). Major documents in dramatic theory and criticism from Aristotle to the present. [0601-1]

4582-6582. Analysis of Dramatic Literature. (3). Examining the script as blueprint to discover and evolve particular components which lead to its artistic fulfill and unity. Advanced techniques of director and scenographer used to analyze and evaluate dramatic literature and specific plays. PREREQUISITE: THEA 4551 or 4552. [1007-1]

4591. Theatre Management. (3). Basic office box and publicity procedures for theatre. Offered alternate years. [1007-1]

4592-6592. Theatre Architecture and Facilities Planning. (3). Processes and techniques employed by theatre planners in design and construction; evaluation of theatre spaces and structures; survey of types of forms; historical development of theatrical structures and spaces; programming methods and procedures; specification, renovation techniques, structural concepts, and consultation procedures and practices. Offered alternate years. PREREQUISITE: permission of instructor. [1007-1]

4611-6611. Acting for Film and Television. (3). Educational experience for actor in media of film and television, concentrating on dramatic, commercial and documentary areas. PREREQUISITE: THEA 3551 or specific acting majors — OR — COMM 3823 or 3824. [1007-1]

4921-6921. Elements of Play Production. (3). Choosing the play, casting, directing, technical aspects of production as they relate to needs of people in educational and community settings. [1007-1]

K493 COMMUNICATION STUDIES (COMM)

DR. JOHN P. BAKKE, Director

1211. Voice and Articulation. (3). Principles of effective voice usage. Emphasis on improving voice characteristics and direction. [1506-1]

1311. Public Speaking. (3). Principles of ethical and effective public speaking; practice in construction and delivery of original speeches in presence of audience. [1506-1]

1810. Introduction to Human Communication. (3). Principles of communication; human communication. Study of communication models, communication purposes and breakdowns, and variables related to interpersonal, small group, intercultural, and public communication. [0601-1]

1811. Introduction to Rhetoric and Communication Arts. (3). Principles, values, forms, effects of persuasive public communication. Consideration of rhetorical styles and effects in speeches, debates, documentaries, and dramatic and entertainment forms. [0605-1]

1822. Media in Modern Society. (3). Historical, cultural, technological, economic, political, and social factors which shape and affect media messages in changing American society. [0601-1]

1851. Introduction to Film. (3). Film as a cultural, artistic, and social phenomenon.

2321. Argumentation and Debate. (3). Basic principles of argumentation; emphasis on developing practical skills in analysis, reasoning, evidence, and organization of argumentation; role of debating in contemporary society. [1506-1]

2322. Persuasive Speaking. (3). Study and practice in meeting special demands of persuasive speech situation. Advanced training in use of arguments and development of effective style. [1506-1]

2351. Rhetorical Criticism. (3). Speeches and rhetoric of black struggle in America. Emphasis on spokespersons such as Walker, Turner, Douglass, Washington, DuBois, Malcolm X, King, Carmichael, and Jones. [1506-1]

2781. Introduction to Rhetorical Theory. (3). Theories of persuasion and communication from ancient to contemporary times. Emphasis on classical, modern, related to interpersonal and social communication. [1506-1]

2811. Social for the Elementary Classroom Teacher. (3). Emphasis on voice and articulation, classroom speaking, and oral interpretation of literature. [1506-1]

3011. Speech Communication in Organizations. (3). Information flow, communication systems, and communication media in organizations, including business, government, and institutional structures. [0601-1]

3013. Communication in Politics. (3). Types of political communication between politicians and constituents; emphasis on presidential rhetoric and campaign speaking and communication via television, radio, and the Internet in construction of political speeches. [0601-1]

3322. Theories of Persuasion. (3). Principles underlying any communication designed to influence attitudes or behavior. Includes approaches to motivation, perception, message structure, attention, reasoning, audience analysis, persuasiveness, and social communication. [1506-1]

3341. Discussion. (3). Study and practice of principles and techniques of discussion, dealing with current problems of wide interest and significance. [1506-8]

3371. Freedom and Responsibility of Speech. (3). Development of freedom of speech as Western values and attendant responsibility of ethical practice, limitations, and responsibility. [1506-1]

3373. The Rhetoric of Social Protest. (3). Speeches, pamphlets, and rhetorical techniques of selected advocates of significant social change. Attention to symbolic language forms, rhetorical devices, and analysis of the adaptation of genre of rhetoric of agitation, protest, and revolution as well as to role of rhetorical discourse in social change. [1506-1]

3800. Elements of Broadcasting. (3). (3881). Structure of broadcasting and economic influences and constraints within which the industry functions. [0601-1]

3820. Broadcast Preparation and Performance. (3). Skills required for on-air performance in broadcasting emphasizing use of voice and copy preparation; presentation of public affairs programming, documentary narration, sportscasting, news, and entertainment. [0603-3]

3821. Radio Production and Studio Operations. (3). (3825). Preparation, production and evaluation of programs, including talk, discussion, interview, music, documentary and special event shows; emphasis on construction, editing, and compilation for broadcast use. [0603-3]

3822. Advertising and Production. (3). Intensive training in preparation of radio announcements, commercials, programs, and documentaries drawing upon production fundamentals. PREREQUISITE: A grade of 'C' or better in COMM 3821. [0603-5]

3823. Television and Film Production and Aesthetics I. (4). (3882). Basic production skills and theory; audio control, recording, still photography, studio and small-format TV production. Aesthetics of sound and moving image. Three hours lecture-demonstration- critiques: two hours laboratory. PREREQUISITE: permission of instructor. [0603-8]

3824. Television and Film Production and Aesthetics II. (4). (Same as COMM 3824). Intermediate production skills and theory in film and television, including actual production exercises. Three hours lecture-demonstration- critiques: two hours laboratory. PREREQUISITE: COMM 3823 or permission of instructor. [0603-8]

3851. Art of Film. (3). (1851). Functions, development and techniques of film as fine and popular art. Study of film language and forms as means of expressionistic, Hollywood, observational, etc. [0605-1]

4101-6101. Contemporary Theories of Language. (3). Influence of language on behavior; limitations of language as communication system; and relationship between language and thought. [1506-1]

4341-6341. Interpersonal and Small Group Communication. (3). Advanced theory in logical, psychological, and sociological investigation of issues in small groups. [0601-8]

4361-6361. History and Criticism of British Public Address. (3). History of public speaking in Britain from the 16th century to present. Emphasis on speech situation, audience, issues and speakers. Such men as Fox, Pitt, Sheridan, Burke, Disraeli, and Churchill considered. Repeatable to a maximum of 6 hours [0601-8]

4362-6362. History and Criticism of American Public Address. (3). Analysis of political, religious and social speaking from colonial times to present. Such men as Clay, Emerson, Lincoln, Webster, and the Roosevelts considered. Repeatable to a maximum of 6 hours with permission of instructor. [1506-1]

4364. Understanding Communication in the Mass Media. (3). Studies individual work, preparation of papers and reports, and extensive class discussion; topics vary from semester to semester. May be repeated up to 6 hours. [1506-8]

4371-6371. Rhetorical Criticism. (3). Problems in theory and criticism of classical and modern rhetorical works; application of principles of criticism; critical evaluations of current public speaking programs. [1506-1]

4373-6373. Interracial Communication. (3). Special problems encountered in communication between people of different cultural backgrounds. Focus on understanding communication interaction between and among people with different racial/cultural backgrounds and functioning more effectively in these interactions. [0601-8]

4374-6374. Directed Studies in Communication Arts. (1-3). Independent research in areas of special interest. Includes rhetoric, radio, television, and film. PREREQUISITE: permission of instructor. [0601-8]

4375-6375. Internal Communication. (3). Special problems encountered in communication between people of different cultural backgrounds. Focus on understanding communication interaction between and among people with different racial/cultural backgrounds and functioning more effectively in these interactions. [0601-8]

4704-6704. Theories of Communication. (3). (Same as JOUR 4704). Comparison of theories offered to explain character or effects of mass communication media ranging from Stimulus-Response Theory to Agenda Setting Theory. [0601-1]

4802-6802. Internship. (1-3). Field studies in communication. Supervised practical work with communication, print media, film, cinema, radio, television, and the stage. Written analysis of experience required. May be repeated for a maximum of 6 semesters hours. PREREQUISITE: permission of instructor. [S/U] [0603-5]

4810-6810. Radio and Television Programming. (3). Analysis of broadcast program formats (with examples); use of this information along with ratings and other audience analysis; study to design of program schedules. [0603-1]

4812-6812. Communications Law in the Performing Arts. (3). Artist, performer, management contractual relationships; acquisition, copy-right and ownership of literary and audiovisual products; production and distribution of recordings; advertising law and other matters for TV, motion picture, radio and stage businesses.

4824-6824. Cinematography/Videography. (3). Art of visual interpretation with strong concentration in theory and techniques. Experience with professional film and video cameras and light equipment. PREREQUISITES: COMM 3823 and 3824. [0603-1]

4825-6825. Creative Editing of Film and Video Tape. (3). Techniques of editing single and double system film and video tape. Overview of total post-production process, but concentrates primarily on aesthetics of continuity. PREREQUISITES: COMM 3823 and 3824. [0603-1]

4831-6831. Radio and Television Sales and Advertising. (3). (Same as COMM 3831). Radio and television advertising: how to plan, media and stations; representation; role of sponsors, agencies, and allied groups. [0603-1]

4842-6842. Television Studio Production. (3). (SPCH 3842). Techniques of studio and small-format TV production, including staging and direction of programs. PREREQUISITE: COMM 3823 or permission of instructor. [0603-1]

4851-6851. Development of Contemporary Film. (3). Theatrical film from 1940 to present.

4852-6852. Origins of Film. (3). Historical survey of motion pictures, from the medium's pre-history to 1940. Emphasis on narrative film.

4853-6853. Documentary Form In Film. (3). History and criticism of documentary, educational, and industrial films. Study of non-fiction form. [0603-1]

4854-6854. Documentary Form in Broadcasting. (3). History and criticism of non-fiction broadcasting and cablecasting. [0603-1]

4855-6855. International Cinema. (3). Important national film traditions in their cultural and historical contexts, focusing on filmmakers whose work has had significant influence on world cinema.

4857-6857. History of American Broadcasting. (3). Comprehensive study of history of broadcasting industry in United States as it developed from 1895 to present. Use of primary sources.

4871-6871. Radio and Television Station Management. (3). Theories of management; special problems and situations confronting manager of broadcasting station, including personnel, operations, government regulations, programming, and advertising.

4892-6892. Film and Video Production. (3). Problems involved in design and production of complete film and video programs. Assumes an intermediate technical proficiency and concentrates on matters of form and content. Depending on the nature of the program, students may work individually or in groups. PREREQUISITE: COMM 4824, 4825, or permission of instructor.

4922-6922. Directing the Forensics Program. (3). For teaching-charged with development of program and directing students in interscholastic competition speech programs; historical background for such programs; organizing techniques, recruiting, tournament direction, and other related concerns. [1506-1]

4970-6970. Screenwriting. (3). Writing for fiction and non-fiction film and television. Basic dramatic theory, narrative structure, characterization, dialogue, adaptation and the unique demands of the audio-visual media.

K497 DANCE (DANC)

The following 1000 level courses may be used to fulfill the University degree requirements for physical education. See Section 6, Graduation from the University, for details.

1821. Modern Dance I. (2). Introduction to modern dance techniques. Research and exploration of fundamentals of dance; students with little or no previous experience in modern dance. [0835-1]

1822. Modern Dance II. (2). Continuation of development of modern dance techniques; emphasis on dance combinations and patterns of advanced beginner skill level. PREREQUISITE: DANC 1821 or permission of equivalent. [0835-1]

1823. Adaptation I. (2).

1825. Ballet I. (2). Introduction to classical ballet technique; emphasis on barre and center floor work for student with little or no previous experience in ballet. [0835-1]

1826. Ballet II. (2). Continuation of classical ballet techniques; emphasis on intermediate level adagio and allegro combinations; students with little or no previous experience in ballet. [0835-1]

1827. Jazz Dance I. (2). Contemporary jazz dance techniques; emphasis on fundamentals of siom; for student with little or no previous experience in jazz dance. [0835-1]

1831. Tap Dance I. (2). Fundamentals of beginning tap dance; emphasis on techniques of constructing Tap rhythms and steps; for student with little or no previous experience in tap dance. [0835-1]

1832. Tap Dance II. (2). Development of intermediate skills and knowledge of tap dance. PREREQUISITE: DANC 1831 or equivalent. [0835-1]

4102. Workshop in Physical Education, Sport, and Dance. (3). (Same as PHED 4102). Selected phases of physical education; sport; dance through group study. In-depth study of area of interest and need for physical education teachers, coaches and administrators. May be repeated with a change in section. [S/U] [0835-1]

4303. Problems in Physical Education. (1-3). (Same as PHED 4303). Independent study and/or research project on selected physical education problem; issue or concern. PREREQUISITE: permission of instructor. [0835-1]

4903. Selected Topics in Physical Education. (1-3). (Same as PHED 4903). Current topics in physical education. May be repeated with change in content. See Schedule of Classes for specific titles. [0835-1]

Graduate courses in Theatre and Communication Arts: For course descriptions and details of the graduate program, see The Bulletin of the Graduate School.

THE COLLEGE OF EDUCATION

M680 EDUCATION (EDUC)

3100. Education Honors Program Colloquium. (3). Interdisciplinary colloquium on a broad education theme or topics. PREREQUISITE: junior standing and permission of the Education Honors Council.

COUNSELING AND PERSONNEL SERVICES

PROFESSOR ROBERT E. DAVIS, *Chairman*

Room 123, Patterson Building

The Department of Counseling and Personnel Services offers majors at the graduate level only.

M731 COUNSELING AND PERSONNEL SERVICES (COUN)

1661. Career Development. (3). Relationship of interests, aptitudes and careers. Includes exploration of work settings and activities to support individual career planning. Students explore various work settings, relate this information to academic programs, and utilize this information in individual career development. [0826-11]

4611. Introduction to Guidance. (3). Principles and concepts, organization and administration, and implementation of guidance services in various settings. Personal growth and inter-personal relationships experiences to provide opportunities for gaining skills applicable to wide range of human relations situations. [0826-1]

4621. Humanistic Interactions. (3). Human relations exercises and other personal experiences related to effective learning climates. Includes communication skills for working in groups and one to one relationships and identification and referral of students to appropriate resources. [0826-8]

4691-6691. Practicum in Residence Hall Staff Counseling and Advising. (3). Practical experience for residence hall staff. Instruction in the development of individual and group guidance activities in counseling, advising, communication, and leadership. Concerns such as drug abuse, family planning information, and student discipline. Utilizes interdepartmental disciplines. (S/U). [0826-5]

4693. Practicum in Leadership Development. (3). Supervised experiences for developing or refining leadership skills. Practiced in leadership style, communication, motivation, negotiation, conflict resolution, and parliamentary procedures. (S/U). [0826-5]

4770-79-6770-79. Workshop in Guidance. (1-3 each). Opportunity for growth for professional in field of guidance and counseling. Application and study in field designated by specific workshop number. (S/U). [0826-1]

NOTE: Not more than 9 semester hours of Workshop credit can be applied toward a degree.

4773-6773. Workshop in Group Process. (1-3).

4774-6774. Workshop in Community Services. (1-3).

4775-6775. Workshop in Student Appraisal. (1-3).

4776-6776. Workshop in Career Guidance. (1-3).

4777-6777. Workshop in Pupil Personnel Services. (1-3).

4778-6778. Workshop in Counseling. (1-3).

4779-6779. Workshop in College Student Personnel Service. (1-3).

4781-6781. Counseling Strategies for Crisis Intervention. (3). Process of crisis intervention. Study and practice in understanding crisis induced dysfunctional behavior, recognizing crisis situations, and crisis counseling procedures. Students to demonstrate competency in assisting in safety of disengaging crisis participants, providing follow-up and referral. [0826-8]

4782-6782. Gerontological Counseling. (3). Survey of demographic, developmental, physiological-sensory and psychosocial factors of aging and application of these factors in use of appropriate individual and group counseling techniques for aged; emphasis on particular crisis situations such as retirement, leisure, relocation, housing, institutionalization, dying, death, and survivorship. [0826-1]

4783. Alcohol and Drug Abuse Counseling. (3). Process of counseling alcoholic and drug dependent persons. Study in modalities of treatment, philosophy of treatment, and referral. [0826-1]

CURRICULUM AND INSTRUCTION

PROFESSOR ROSETELLE B. WOOLNER,
Interim Chairman

Room 424, The College of Education Building

The Department of Curriculum and Instruction offers majors and minors in elementary education, secondary education and a major in early childhood education.

M650 ELEMENTARY EDUCATION (ELED)

2211. Introduction to Early Childhood Education. (3). Principles and practices of early childhood education programming and children's characteristics, infancy through third grade, in United States. Surveys of research in varied socio-economic day care centers, kindergartens, and primary grades. Two lecture hours, two lab hours per week. PREREQUISITES: ELED 2211, [0826-5]

3212. Communication Interaction in Early Childhood Education. (3). Application of selected principles of communication to teacher-child interaction, classroom management; teaching and learning, and program development. Infancy through third grade. Two lecture/two laboratory hours per week. [0823-1]

3241. Language Arts in the Elementary School. (3). How language arts (listening, speaking, reading, and writing) learned and taught. Interrelationships of these skills stressed. Emphasis on teaching reading and writing skills to facilitate. Laboratory experience may be required. PREREQUISITES: EDFD 2011; EDPD 2111, 3121. [0802-1]

3251. Teaching Methods in Elementary School Mathematics. (3). Emphasis on process approach to teaching basic mathematics concepts, including research use. Involvement with variety of materials. Laboratory experience may be required. PREREQUISITES: EDFD 2011; EDPD 2111, 3121. [0833-1]

3261. Teaching Methods in Elementary School Science. (3). Emphasis on process approach to teaching basic science concepts, including area of research use. Involvement with variety of materials. Laboratory experience may be required. PREREQUISITES: EDFD 2011, EDPD 2111, 3121. [0833-1]

3271. Teaching Methods in Elementary School Social Studies. (3). Emphasis on methods and materials of social studies appropriate to each developmental level of elementary school child. Laboratory experience may be required. PREREQUISITES: EDFD 2011, EDPD 2111, 3121. [0833-1]

3412. Materials and Methods for Affective Domains in Early Childhood Education. (3). Survey of methods of effective development in early childhood education, infancy through third grade; implications for designing programs, materials and teaching strategies in the creative arts. Supervised lab experiences in varied socio-economic day care centers, nurseries, schools, kindergartens, and primary grades. Two lecture hours, two lab hours per week. PREREQUISITE: ELED 3212. [0803-1]

3803. Motor Learning and Teaching Methods in Physical Education. (3). (Same as PHED 3803). Inquiry into perceptual motor development and its relationship to psychomotor behavior. Emphasis on variables conducive to skill acquisition and their implications for teaching. [0835-1]

3901. Special Problems in Instruction. (1-3). Individual investigation in area of instruction. PREREQUISITE: experience as teacher or satisfactory evidence of being qualified to teach from course. [0829-8]

4211-6211. Comparative Study in Early Childhood Education. (3-6). Comparison and comparison of early childhood programs in United States and other countries. Foreign and domestic travel may be planned. PREREQUISITE: consent of instructor. [0823-1]

4212. Materials and Methods for Cognitive Domains in Early Childhood Education. (3). Materials and methods techniques for cognitive development through third grade; concept development, concept formation, instructional objectives; preparation and implementation of academic content. Supervised lab experiences in varied socio-economic day care centers, nurseries, schools, kindergartens, and primary grades. Two lecture hours, two lab hours per week. PREREQUISITE: ELED 3212. [0803-1]

4242. The Teaching of Developmental Reading. (3). Survey of theoretical background for developmental reading instruction. Methods and materials used to teach sequential skills primarily for prekindergarten through third grade. Laboratory experience may be required. PREREQUISITE: ELED 3241 or classroom experience. [0830-1]

4243. Corrective Reading. (3). Diagnostic, prescriptive approach to teaching reading, using both formal and informal methods for assessing reading levels and skill needs. Laboratory experience may be required. PREREQUISITE: ELED 4242. [0830-1]

4252. The Teaching of Modern Mathematics in the Elementary School (Grades 1-8). (3). Advanced course for prospective and experienced teachers concerned with mathematical processes required of elementary school child. [0838-1]

4411. Home School Relationships in Early Childhood Education. (3). Parent-Teacher-Child relationships; conferring, interviewing, report writing procedures and techniques; pupil evaluation methods; typical child problems; and lab experiences in varied socio-economic day care centers, nurseries, schools, kindergartens, and primary grades. Two lecture hours, two lab hours per week. PREREQUISITES: ELED 2211, [0826-5]

4751-6751. Workshop in the Reading Program. (3-6). Focus on problems of teaching reading as related to content, methods, materials, and evaluation. (S/U). [0830-1]

***4811. Directed Student Teaching in the Kindergarten.** (3-9). Observation of growth and development of pupils and of methods of teaching; participation in school activities, culminating in assuming responsibility for teaching entire groups. (S/U). [0802-5]

***4821. Directed Student Teaching in the Elementary School.** (3-9). Observation of growth and development of pupils and of methods of teaching; participation in school activities, culminating in assuming responsibility for teaching entire groups. (S/U). [0802-5]

***4822. Directed Student Teaching in the Elementary School.** (3-6). For student who has completed 6 semester hours or less of student teaching in elementary school and desires additional experience. (S/U). [0802-5]

*See information pertaining to requirements for admission to the student teaching program in section 7. *Classes and Degree Programs.*

6757 CURRICULUM AND INSTRUCTION (CIED)

1201. Reading Skills for University Students. (1-3). Designed to improve college students' reading skills. Clinical laboratory approach; individual diagnostic/prescriptive programs devised for each student. Emphasizes vocabulary, comprehension, word attack, critical reading, reading comprehension reading and methods of study. NOTE: Credit for this course may not be counted toward any degree unless prior permission has been obtained from the dean of the college in which the degree will be granted. "T" grades will be used in this course.

3301. Analysis of Teaching. (1-3). Interaction analysis and related nonverbal behavior techniques to describe pupil-teacher classroom interchange; microteaching to identify and analyze teaching skills. PREREQUISITE: EDS 3121. [0801-1]

3410. Audio-Visual Instructional Materials in Education. (3). Introduction to audio-visual presentation and utilization of selected multimodal materials. Laboratory experience. Emphasis on implications of media for teaching. [0829-1]

3434. Teaching Reading Communication Skills in the Content Areas. (3). Exploration of methods, materials, and organizational patterns by which reading skills can be developed and improved. Emphasis on communication skills that can be developed with teaching strategies in content subjects. [0830-1]

4701-6701. Workshop in Curriculum and Instruction. (1-9). Various areas of curriculum and elements of instruction explored. Active student participation included. See Schedule of Classes for specific topic. Repeatable for credit, but for no more than 9 semester hours for any one topic. (S/U). [0801-1]

4761-6761. Aerospace Education in Schools. (3). Aerospace content and flight experiences. Emphasizes classroom application and flight experiences. [0829-1]

4950-6950. Selected Topics in Curriculum and Instruction. (1-3). Current topics in areas of curriculum and instruction at all levels. May be repeated with change in topic and content. See Schedule of Classes for specific topic. [0829-1]

M670 SECONDARY EDUCATION (SCED)

***3321. Materials and Methods in Secondary Art.** (3). Same as ART 2111. [0803-1]

***3322. Materials and Methods in Secondary Music.** (3). (Same as MUSA 4203). [0832-1]

***3331. Motor Learning and Teaching Methods in Physical Education.** (3). (Same as PHED 3803). [0835-1]

3332. Materials and Methods in Health Education. (3). (Same as HLTH 3102). [0837-1]

***3341. Materials and Methods in Secondary English.** (3). [0803-1]

***3342. Materials and Methods in Secondary Speech.** (3). [0803-1]

***3348. Materials and Methods in Secondary Foreign Languages.** (3). [0833-1]

***3351. Materials and Methods in Secondary Mathematics.** (3). [0833-1]

***3361. Materials and Methods in Secondary Biology.** (3). [0834-1]

***3362. Materials and Methods in Secondary Physical Science.** (3). [0834-1]

***3371. Materials and Methods in Secondary Social Studies.** (3). [0803-1]

***3372. Materials and Methods in Secondary Psychology.** (3). [0803-1]

***3376. Methods of Teaching Shorthand.** (2). [3381]. [0839-1]

***3377. Methods of Teaching Typewriting and Office Practice.** (2). [3381]. [0839-1]

***3378. Methods of Teaching Bookkeeping, Accounting, and Data Processing.** (2). [3382]. [0838-1]

*3379. Methods of Teaching General Business, Economics, Business Law, and Merchandising. (2). (3382). (0638-1)

*3383. Materials and Methods in Secondary Home Economics. (3). (3383-1)

*3384. Materials and Methods in Secondary Industrial Arts. (3). (3384-1) (TED 4210). (0638-1)

*NOTE: The methods courses in high school subjects include: objectives, content, and grade placement of subject; tools of instruction, organization of courses; and teaching procedures and practices.

3901. Special Problems in Instruction. (1-6). Individual investigation in area of instruction. PREREQUISITE: experience as teacher and evidence of being qualified to benefit from course. (0629-8)

4306. Educational Methods for Adult Education. (3). Emphasis on trends, instructional and resource materials, and instructional techniques used in adult educational programs. (0607-1)

4341. Teaching Literature for Adolescents. (3). Theories and techniques of teaching literature for adolescents at secondary level; survey and analysis of appropriate fiction, drama, and poetry for teenage reader. (0603-1)

4411. Curriculum Problems and Trends in the Secondary School. (3). Secondary school educational principles and appropriate learning activities. Includes: methods of establishing relationships among school subjects; developing alternative curricula; and organization and use of units of work. (0629-1)

*4841. Directed Student Teaching in the Secondary School. (3-9). Observation of growth and development of pupils and of methods of teaching; participation in school activities, culminating in personal responsibility for teaching entire groups. (S/U). (0603-5)

*4842. Directed Student Teaching in the Secondary School. (3 to 6). For student who has completed 6 semester hours or less of student teaching on secondary level and desires additional experience. (S/U). (0603-5)

Graduate Courses in Curriculum and Instruction: For full details of graduate program, see *The Bulletin of The Graduate School*.

*See information pertaining to requirements for admission to the student teaching program in Section 7, Colleges and Degree Programs.

4012-6012. History of American Education. (3). Development and growth of educational practices, institutions, and organizations in United States from colonial period to present. (0621-1)

4051-6051. Anthropology and Education. (3). (Same as ANTH 4051). Cultural transmission process; emphasis on identifying different behavioral, cognitive, and learning styles of various ethnic groups within American society and selected third world countries and U.S. subcultural groups within public education system. (0621-1)

4701-6701. Workshop in Cultural Foundations of Education. (1-3). Group study and analysis of selected area indicated by student printed in Schedule of Classes. NOTE: No more than 9 semester hours of workshop credit can be applied toward a degree. (S/U). (0621-1)

M710 RESEARCH METHODOLOGY AND STATISTICS (EDRS)

4511-6511. Measurement and Evaluation. (1-3). Test construction, test statistics, and interpretations and applications of educational research. Maximum of 3 semester hours credit may be earned. Student may enroll in complete course for three credits or in separate modules. (0625-1) The course offered in three modules.

- 001 MEASUREMENT AND EVALUATION (3)
- 002 TEST CONSTRUCTION (1)
- 003 TEST STATISTICS (1)
- 004 STANDARDIZED TEST RESULTS (1).

PREREQUISITE: EDRS 4511-003.

4518. Special Problems in Educational Measurement. (1-3).

Individual investigation and report of specific problem under direction of faculty member. PREREQUISITE: permission of instructor. (0628-5)

4530-6530. Microcomputers in Education: Theoretical and Technical Foundations. (3). History, development, and status of microcomputers in education and introduction to the techniques and applications of microcomputers as they are used for specialized educational applications. Prerequisite: knowledge for more advanced computer-related training in different education specialty areas.

4541. Fundamentals of Applied Statistical Methods. (1-3). Introduction to use of statistical techniques in education and behavioral sciences. Emphasis on practical use and interpretation of these concepts. Maximum of 3 semester hours credit may be earned. Student may enroll in complete course for three credits or in separate modules. (0624-1)

- 001 FUNDAMENTALS OF APPLIED STATISTICAL METHODS (3)
- 002 DESCRIPTIVE STATISTICS (1)
- 003 PROBABILITY AND CORRELATION (1). PREREQUISITE: EDRS 4541-002
- 004 INFERENTIAL STATISTICS (1). PREREQUISITE: EDRS 4541-003

4542. Fundamentals of Applied Research. (3). Basic research designs, problem of replicability, and methodology used in proposing and reporting research; emphasis on referencing and interpreting research literature. (0624-1)

M720 EDUCATIONAL PSYCHOLOGY (EDPS)

2111. Human Growth and Development. (3). Life-span approach to principles and processes of human growth and development applied to educational process. (0622-1)

3121. The Psychology of Learning. (3). Psychology of learning and its application to achievement of guidance in school. PREREQUISITE: Student must have filed and not yet rejected for admission to Teacher Education Program or declare no intention of securing teacher certification. (0622-1)

4108. Special Problems in Educational Psychology. (1-3). Individual investigation and report of specific problem under direction of faculty member. PREREQUISITE: permission of instructor. (0622-6)

4112. The Psychology of Adolescence. (3). Physiological, sociological, and psychological factors which act as antecedents of adolescent behavior as well as categories for observational behavior of adolescents during adolescence; emphasis on relationship of specific behaviors to problems encountered by teachers of adolescents. Community facilities used for laboratory observation. (0622-1)

4114. Human Development: Maturity and Aging. (3). Survey of intellectual/cognitive changes; psychosocial and psychological developmental issues which occur during the later portions of the life span and their implications for education.

4122. Management of Classroom Behavior. (3). Study and application of psychological principles used by educators to cope with behavioral problems in order to improve social and emotional behaviors of students. Laboratory or simulation activities along with academic study. (0622-1)

4701-6701. Workshop in Psychological Foundations of Education. (1-3). Group study and analysis of selected area indicated by student printed in Schedule of Classes. NOTE: Not more than 9 semester hours of workshop credit can be applied toward a degree. (S/U). (0622-1)

HEALTH, PHYSICAL EDUCATION, AND RECREATION

PROFESSOR MELVIN A. HUMPHREYS, Chairman

Room 204, Field House

Majors and/or minors are offered in (1) health, (2) physical education, and (3) recreation and park administration.

M740 HEALTH (HLTH)

1102. Personal Health. (3). (Physical) biological basis of living, including fundamental biological facts; psychological aspects of human behavior that affect individual health conduct and mental hygiene; agents of disease and modern scientific methods of controlling them. (0637-1)

1202. Introduction to Community Health. (3). Health problems requiring community action. Introduction to official and nonofficial health agencies whose programs designed for prevention, promotion, and maintenance of health and promotion of health. Activities in areas of environmental, health, sanitation, epidemiology, health education, and related areas. (0637-1)

1302. Foundations of Health Science. (3). Historical and philosophical study of growth and development of health science.

3102. Materials and Methods in Health Education. (3). (Same as SCED 3332). Methods, materials, and resources for health teaching, emphasis on improving health behavior through sound health teaching. (0637-1)

3202. The School Health Program. (3). Organization of total health program including health services, healthful school program, and health education. Impact of organization on organizing, implementing, health services in schools, screening tests, detection of defects and follow-up, and promotion of health through school environment. (0637-1)

3302. Elementary School Health Education. (3). School health program involving health services, healthful school and health instruction. Content and materials suitable for elementary school health education stressed. (0637-1)

4102. Critical Issues in Health. (3). Critical and controversial issues of health explored. (0637-1)

4182-6182. Health Aspects of Gerontology. (3). Current issues and trends in gerontology on the health and quality of life of the aging.

4202-20-6202-20. Workshop in Health. (1-6). Selected phases of health and health education through group study. Depth study in areas of interest to persons in health education and related fields. (S/U). (0637-1)

4203-6202. Workshop in Death and Dying. (1-3). (0624-6204). Workshop in Death Education. (1-3).

4302-6302. Workshop in Community Health Agencies. (3). Introduction to purposes, objectives, functions and programs of community health and welfare agencies, with opportunities to visit public and private agencies and interview various representatives. (0637-1)

4402. Practicum in Public Health Education. (1-6). Field experience in public health education. Practical work under supervision of government or voluntary agencies. (S/U). (0637-5)

4502. Problem in Health Education. (1-3). Independent study or research project on selected health problems or issues. PREREQUISITE: consent of instructor. (0637-8)

4602-6602. Organization and Administration in Public Health. (3). Total function, principles, and procedures of organization and administration as applied to health. Emphasis on relationship and responsibilities of personnel in planning, promoting, and improving and evaluating total health activities in family-centered health services. (0637-7)

4702-6702. Trends and Problems in Public Health. (3). Historical development and current trends in public health; various needs and demands for medical care; contribution of professional personnel in providing for total health services and education. (0637-1)

4802-6802. Environmental Health. (3). Survey of complex associations between environment and human productivity. Health and human environment factors within the general framework of ecological perspective in which the interrelationships of all living things to one another affect human growth and well being. (0637-1)

4902. Selected Topics in Health. (1-3). Current topics in health. May be repeated with change in topic and content. See Schedule of Classes for exact titles. (0637-1)

M745 SAFETY EDUCATION (SAFE)

2102. First Aid and Emergency Care. (3). (HLTH 2102). Safety skills and techniques of immediate and temporary care in event of injury or sudden illness. Successful completion qualifies student for standard first aid and personal safety ARC certificate. (0636-1)

2202. Safety Education. (3). (HLTH 2202). Causes of accidents and action designed for prevention of accidents in home, school, and community. Content and materials for safety education in school instructional program (0636-1)

2703. Water Safety Instructor. (3). (PHED 2703). Analysis, practice, and teaching of swimming and life saving skills and general water safety practice. PREREQUISITE: PHED 1722 (0635-1)

EDUCATIONAL ADMINISTRATION AND SUPERVISION

PROFESSOR FRANK W. MARKUS, Chairman

Room 202, The College of Education Building

The department offers majors at the graduate level only.

M630 EDUCATIONAL ADMINISTRATION AND SUPERVISION (EDAS)

4380. Organizational and Legal Aspects of Teaching. (1-3). Professional orientation focuses on effective relationship of classroom teacher to administrative and legal setting. (Any one, two, or all three sections may be taken) (0627-1)

001 COMPLETE COURSE (3)

002 THE LEGAL DIMENSION (1)

003 THE ORGANIZATIONAL DIMENSION (1)

004 THE PROFESSIONAL DIMENSION (1)

FOUNDATIONS OF EDUCATION

PROFESSOR CARLTON H. BOWYER, Chairman

Room 404, The College of Education Building

The department does not offer a major or minor at the undergraduate level. Its primary role at the undergraduate levels is to provide study in the socio-cultural and psychological foundations of education for all students seeking to qualify for teacher certification and/or the Bachelor of Science in Education degree.

M700 EDUCATIONAL FOUNDATIONS (EDFD)

2112. Foundations of Educational Thought and Practice. (3). Origins, influences, and consequences of forms of control selected historical and contemporary contexts. Focus on developing critical perspective of policy proposals and resulting educational designs. (0621-1)

4008. Special Problems in Cultural Foundations of Education. (1-3). Individual investigation and report of specific problem under direction of faculty member. PREREQUISITE: permission of instructor. (0613-8)

3302. Cardiopulmonary Resuscitation and Emergency Life Support. (3). Basic life support techniques of Cardiopulmonary Resuscitation and other emergency life support situations. Successful completion qualifies student for certification in basic life support. Cardiopulmonary Resuscitation (CPR) and First Aid Cardiopulmonary Resuscitation (CPR) Instructor's Certificates. **PREREQUISITE:** SAFE 2102 or ARC advanced certificate. **[0836-1]**

3302. Instructor's Course in First Aid. (3). (MILTH 3402). Advanced consideration of first aid subject matter, orientation in methods, techniques, and teaching devices in first aid and courses, and practical classroom experiences. Successful completion qualifies student for certification in first aid instructor's and Basic Life Support/ Cardiopulmonary Resuscitation (CPR) Instructor's Certificates. **PREREQUISITE:** SAFE 2102 or ARC advanced certificate. **[0836-1]**

3302. Prevention and Care of Athlete Injuries. (3). (MILTH 3502). Practical and theoretical aspects of treatment of athletes injuries in athletic training program, supplies, training table, therapeutic equipment, and techniques in conditioning and bandaging. **[0837-1]**

4207-6207. Workshop in Driver and Traffic Safety Education. (1-3). For in-service and prospective teachers of grades 7-12. Improvement of techniques in giving classroom instruction to drivers and prospective drivers. Attention to common elements of teaching methodology, utilization of appropriate driver and traffic safety education materials and resources and evaluative criteria. **(S/U)** **[0836-1]**

4336-5335. Driver and Traffic Safety Education I. (3). (SCED 3335). Basic knowledge and skills to deal with problems of motor traffic. Driver driving and driver improvement techniques stressed. Students desiring teacher certification must enroll concurrently in SAFE 4336 for one semester hour in order to complete laboratory requirements. **[0836-1]**

4336-5338. Driver and Traffic Safety Education — Lab I. (1). Laboratory experiences involving classroom instruction, driver instruction. Required for all students desiring certification in driver education. To be taken concurrently with SAFE 4335. Two hours each week **TBA**. **[0836-1]**

4337-6337. Driver and Traffic Safety Education II. (3). (SCED 3337). Advanced knowledge and traffic safety education techniques. Includes study of current research on accident causation and prevention. Students desiring teacher certification must enroll concurrently in SAFE 4338 for one semester hour in order to complete laboratory requirements. **[0836-1]**

4338-6338. Driver and Traffic Safety Education — Lab II. (1). Laboratory experiences involving classroom instruction, driver instruction. Required for all students desiring certification in driver education. To be taken concurrently with SAFE 4337. Two hours each week **TBA**. **[0836-1]**

4902. Selected Topics in Safety Education. (1-3). Current topics in safety education. May be repeated with change in topic and content. See Schedule of Classes for specific title. **[0836-1]**

750 PHYSICAL EDUCATION (PHED)

1103. Orientation for Physical Education Majors and Minors. (2). Seminars in programs, career opportunities, professional societies, and related literature. **[0835-1]**

1001-1941. Selected Physical Activities. (2). **[0835-1]**

Required Physical Education courses are to be selected from the following courses.

NOTE 1: The prerequisite for each advanced activity course is the introductory course or its equivalent.

NOTE 2: Any student except those with a major or minor in Physical Education has the option of taking these courses for credit in a letter grade on a credit/no-credit basis. Students majoring in the Fogelman College of Business and Economics should check with their adviser before registering on a credit/no-credit basis.

NOTE 3: PHED 1001 (Physical Education I/Conditioning) may be repeated with change in topic. All other physical activity courses listed below may be repeated when title and content vary. Those sections designated as PHED Majors may be elected only by students majoring in Physical Education.

NOTE 4: Certain DANC courses in the Department of Theatre and Communication Arts may be used to meet the University physical activity course requirements.

1001. Figure Control and Conditioning

001 JOGGING
002 EXERCISE AND WEIGHT CONTROL
003 CONDITIONING FOR VARSITY SPORTS

1103. See description above.

1201. Adaptive Activity. (May be repeated for maximum of 4 semester hours.)

1201. Weightlifting

001 MACHINES
002 FREE WEIGHTS AND CONDITIONING
003 POWER WEIGHTLIFTING

1331. Camping

001 BACKPACKING
1332. Advanced Camping
001 ROCK CLIMBING
002 MOUNTAINEERING
003 CAVING

1361. Equitation

001 WESTERN STYLE
1412. Judo
001 SELF DEFENSE TECHNIQUES

1413. Advanced Judo

1331. Wrestling
001 PHED MAJORS
1441. Karate
1442. Advanced Karate
1451. Martial Skills
1461. Fencing
001 KENDO

1501. Tennis

1502. Advanced Tennis

001 PHED MAJORS
1521. Racquetball
1522. Advanced Racquetball
1531. Handball
1532. Advanced Handball
1541. Badminton
1542. Advanced Badminton
1551. Archery
1561. Billiards
1571. Golf
1572. Advanced Golf

1581. Recreational Games

001 NEW GAMES
002 PHED MAJORS

1621. Gymnastics

001 MEN'S EVENTS
002 WOMEN'S EVENTS
003 CHEERLEADING STUNTS AND TUMBLING
004 STUNTS AND TUMBLING
005 PHED MAJORS

1622. Advanced Gymnastics

001 MEN'S EVENTS
002 WOMEN'S EVENTS

1651. Swimming

001 HOME FIREARM SAFETY AND MARKSMANSHIP
1711. Beginning Swimming
1712. Elementary Swimming
1713. Intermediate Swimming
001 PHED MAJORS

1721. Advanced Swimming

001 CONDITIONING THROUGH SWIMMING
1761. Springboard Diving

1771. Scuba

1772. Advanced Scuba
1781. Swimming and Small Craft

1801. Kayaking

001 RAFTING
002 SMALL BOAT CRAFTING
004 SAILING
005 CANOEING

1811. Rhythms for Elementary School

1812. Square and Round Dance I

1813. Folk and Social Dance I

001 PHED MAJORS

1814. Folk and Social Dance II

1921. Basketball

001 PHED MAJORS

1922. Volleyball — Basketball

1923. Volleyball

001 PHED MAJORS

1931. Soccer and FieldSports

1941. Track and Field Events

001 PHED MAJORS

*The prerequisite for these courses is Physical Education 1713.

The descriptions for these courses follow immediately below.

1812. Square and Round Dance I. (2). Introduction to American square, round and contra dance. **[0835-1]**

1813. Folk and Social Dance I. (2). Introduction to international folk dance and American ballroom and social dance. **[0835-1]**

1814. Folk and Social Dance II. (2). Expansion on repertoire of international folk dances and American ballroom and social dances of increased difficulty and challenge. **[0835-1]**

2003. Analysis of Movement. (3). Understanding how and where body moves and what body can do. Opportunities to demonstrate understanding of mechanical principles and concepts of movement and to apply these concepts to sport, dance, gymnastics and aquatics. Laboratory and lecture. **[0835-1]**

2103. Fundamentals and Techniques of Football. (2). Coaching techniques, training and conditioning methods appropriate to football. **[0835-1]**

2203. Fundamentals and Techniques of Basketball. (2). Coaching techniques, training and conditioning methods appropriate to basketball. **[0835-1]**

2303. Fundamentals and Techniques of Track and Field. (2). Coaching techniques, training and conditioning methods appropriate to track and field. **[0835-1]**

2403. Fundamentals and Techniques of Baseball and Softball. (2). Coaching techniques, training and conditioning methods appropriate to baseball and softball. **[0835-1]**

2903. History and Principles of Physical Education. (3). Original and current trends in educational development, experimental methods and medium of education. Scientific and philosophical principles of physical education. **[0835-1]**

3103. Materials and Methods in Team Sports. (3). Materials, methods, teaching, and coaching techniques of team sports. Laboratory experiences required. **PREREQUISITES:** PHED 1921 and 1923. **[0835-1]**

3203. Materials and Methods in Individual Sports. (3). Materials, methods, teaching, and coaching techniques of individual sports. Laboratory experience required. **[0835-1]**

3303. Adapted Physical Education. (3). Lectures, demonstrations, and problems of mechanics of physical deformities and their causes; abnormalities of spine, feet, and other postural and functional conditions; and methods of class organization. Two lecture hours per week, plus laboratory periods to be arranged. **[0835-1]**

3403. Kinesiology. (3). Analysis of bodily movements in terms of the muscular forces operating on bones. **PREREQUISITES:** BIOL 1631 and 1632. **[0835-1]**

3503. Materials and Methods of Dance. (3). Basic theory, participation, techniques, materials, and teaching methods in rhythmic activities from grade school to college. Laboratory experiences included. **PREREQUISITE:** PHED 1613. **[0835-1]**

3703. Physiology of Exercise. (3). Scientific basis of physiology on various systems and organs of the body during muscular activity. Emphasis in principles of motor performance and training. **PREREQUISITES:** BIOL 1631 and 1632. **[0835-1]**

3803. Motor Learning and Teaching Methods in Physical Education. (3). (Same as SCED 3331 and ELED 3803). Inquiry into perceptual motor and psychomotor behavior. Emphasis on variables conducive to skill acquisition and their implications for learning. **[0835-1]**

3806. Physical Education for the Elementary School. (3). Materials and methods for physical education in grades 1 through 6, including philosophy, program planning, and practical experience gained through observing and directing play activities for children. Laboratory periods to be arranged. **[0835-1]**

3816. Gymnastics in the Elementary and Middle School. (3). Scope, content, and methodology of the gymnastics program. How to teach development of efficient and skilled use of body in practical situations when working alone and with others, on floor and in apparatus. Laboratory periods to be arranged. **PREREQUISITES:** PHED 2003, 1813. **[0835-1]**

3826. Educational Dance in the Elementary and Middle School. (3). Scope, content, and methodology of rhythms and dance program. Emphasis on creative and aesthetic values therein, and integration and correlation with other arts in school. Laboratory periods to be arranged. **PREREQUISITES:** SCED 3331, 3332, and 3333. **[0835-1]**

3836. Games and Sport Activities for the Elementary and Middle School. (3). Understanding of importance of variety of games, sports, and manipulative activities and learning of skills, techniques, and methods of organization and administration for games and sports. Lecture-laboratory experiences included. **PREREQUISITE:** team sports activity course. **[0835-1]**

3846. Planning the Elementary and Middle School Programs. (3). Current and traditional theory in curriculum development, selected programs, physical education, recreation, and care of supplies and facilities. Observations and laboratory experiences included. **PREREQUISITES:** PHED 2003, 3816, 3826, 3836. **[0835-1]**

4102-6102. Workshop in Physical Education, Sport and Dance. (1-6). Selected group topics in physical education, sport or dance for one or more years. Inquiry on study of area of interest and need for physical education teachers, coaches and administrators. May be repeated with a change in topic. **(S/U)** **[0835-1]**

4204. Tests and Measurements in Physical Education. (3). Study of various tests in physical education, including uses and interpretation of elementary statistical techniques. **[0835-1]**

4303. Problems in Physical Education. (1-3). Independent study and/or research project selected physical education topics of concern. **PREREQUISITE:** permission of instructor. **[0835-1]**

4503. Organization and Administration of Physical Education. (3). Administrative problems of physical education, including curriculum, facilities, buying and caring for equipment, general class organization, and organization of intramural programs. **[0835-1]**

4613-6613. Management of Athletic Facilities and Equipment. (3). Modern techniques and procedures used in management of interscholastic and intercollegiate athletic facilities. Additional emphasis on selection and care of appropriate facilities and athletic equipment. **[0835-1]**

4903. Selected Topics in Physical Education. (1-3). Current topics in physical education. May be repeated with change in topic and content. See Schedule of Classes for specific titles. **[0835-1]**

M760 RECREATION (RECR)

2106. Introduction to Recreation and Parks. (4). History and development of recreation and park movements, nature of recreation experience and its importance to the individual and influence of leisure on society. Private, public, voluntary, military, and commercial delivery systems for recreation and park services. **[2103-1]**

2205. Agency Service Organization. (2). Introduction to agency services, serving time needs of children and adults. Emphasis on YMCA, WYCA, CYO, JCC, BSA, and GSA. Objectives, organization, program, and membership of principal national youth agencies. **[2103-1]**

3005. Camp Counseling. (2). Orientation to camping as a profession in America today; problems faced by camp counselor or background to aid counselor in performance of duties. **[2103-1]**

3105. Philosophy and Principles of Recreation. (2). Work leisure, play, and recreation; attention to sound principles of recreation. **[2103-1]**

3205. Park and Recreation Facilities. (2). Study of planning, development, and maintenance of parks and recreation facilities. Includes inspection; comprehensive recreation surveys, and planning a layout. **[2103-1]**

3305. Program Planning in Recreation. (4). Program fields in relation to programming principles, planning objectives, structure, organization, policies and values of typical recreation programs, programs for special groups, and program evaluation. **[2103-1]**

3405. Resource Management in Recreation. (4). Management, operation and maintenance of areas and facilities within field of recreation and parks. Includes identification, acquisition, allocation, development and management of land and water resources. **[2103-1]**

Health, Physical Education and Recreation - Home Economics and Distributive Education

3505. Camp Administration. (2). Organization and administration of camps and camping programs; emphasis on program planning, selection and training of staff. [2103-1]

3605. Outdoor Recreation. (2). Organization and administration of programs and activities in large park areas and forests. Outings: campfire programs, picnics, hiking, outdoor cookery, trailering, climbing, class and field activity. [2103-1]

3705. Outdoor Education. (2). Philosophy, modern trends, administration, program content, and methods of leadership in outdoor education activities. Opportunities for field trips and practice in leadership skills. [2103-1]

3805. Leadership Seminar In Recreation. (3). Dynamics of leadership; theoretical principles, and practices of leadership; leadership in recreation; organization and problems of working with individuals and groups. [2103-1]

4105. Recreational Leadership. (3). Development of skills and techniques necessary for successful leadership in recreation and park programs. [2103-1]

4205-6205. Supervised Clinical Training In Recreational Leadership. (6). Principles and methods of therapeutic recreation in clinical setting. PREREQUISITE: consent of instructor. [2103-1]

4305. Field Problems In Recreation. (1-6). Selected problems in areas of recreation and parks through individual and group experience. PREREQUISITE: permission of instructor. [2103-1]

4405-6405. Organization and Administration of Recreation. (3). Community organization, its philosophy, foundation and principles. Selected administrative practices that relate to successful recreational organization and administration. [2103-1]

4505. Recreation Survey. (3). Program observation, analysis, need assessment and evaluation. [2103-1]

4605. Internship In Recreation and Parks. (3-9). Professional field experience including situations in which student has opportunity to relate theory to practical experience. PREREQUISITE: consent of instructor. [S/U]. [2103-1]

4705-6705. Workshop In Recreation and Parks. (1-6). Selected phases of recreation, parks or leisure studies. In-depth study of areas of interest and need for persons in recreation and parks or related fields. May be repeated with a different emphasis. [2103-1]

4905. Selected Topics In Recreation, Parks, and Leisure Studies. (3). Content topics in recreation, parks, and leisure studies. May be repeated with change in topic and content. See Schedule of Classes for specific title. [2103-1]

4301. Nursery School Practicum. (3). Participation in and direction of various nursery school activities. One conference, four laboratory hours per week. PREREQUISITE: HMEC 2101. (S/U). [0823-5]

FOODS, NUTRITION AND INSTITUTIONAL MANAGEMENT (HMEC)

2102. Food Selection and Preparation. (3). Principles underlying selection and preparation of foods with introduction to purchase and use of various food items. One lecture, four laboratory hours per week. [1306-1]

2002. Elementary Nutrition. (3). Nutritive value of food, factors influencing body food requirement and health. Open to freshmen. [1306-1]

3302. Meal Preparation and Table Service. (3). Nutrition fundamentals in individual and family dietsaries, meal planning, marketing and table service for various occasions. One lecture, four laboratory hours per week. PREREQUISITE: HMEC 2102. [1306-1]

3602. Institutional Management and Equipment. (3). Observation and practice in handling problems of organization and management of quantity food service. [1307-1]

3702. Catering. (3). Special food preparation and service for catered events. Emphasis on historical background of special foods in United States with laboratory preparation. One lecture, four laboratory hours per week. PREREQUISITES: HMEC 4502 and 3602. [1306-1]

3802. Clothing Construction (Practicum). (3). Personnel management, cost control, and quality control in specific organizations. Experience in appraising food services. One lecture, four laboratory hours per week. PREREQUISITES: HMEC 4502 and 3602. (S/U). [1306-5]

4102. Diet Therapy. (3). Dietary problems applicable to preparation and treatment of various diseases. Nutritional needs are of major importance. PREREQUISITES: BIOL 1631. HMEC 2102, 4402, or permission of instructor. [1306-1]

4402. Advanced Nutrition. (3). In-depth study of nutrients and body utilization and discussion of current issues in nutrition. PREREQUISITES: HMEC 2202, CHEM 1111, 1112. [1306-1]

4502-6502. Quantity Cookery and Purchasing. (3). Principles of procuring, storing, producing and serving foods in volumes. Planned work experience in selected quantity food operations. PREREQUISITES: HMEC 3302, 3602. [1307-1]

4602-6602. Community Nutrition. (1). Nutritional problems of various groups of people and socio-economic groups. Community and agencies concerned with meeting these needs. PREREQUISITE: HMEC 2202 or permission of instructor. [1306-1]

4702-6702. Practicum In Community Nutrition. (3). Observation and participation in community nutrition programs of various groups of people. PREREQUISITE: HMEC 4602 or permission of instructor. [1306-5]

4802. Experimental Foods. (3). Principles underlying experimental approach to study of chemistry, composition, structure, and properties of foods with demonstration of effects of various ingredients in commonly prepared foods. PREREQUISITES: HMEC 2102, CHEM 1111, 3311.

HOME MANAGEMENT (HMEC)

4103. Family Economics. (3). Management of family resources as they relate to satisfying home and family life. Includes problems in consumer goods and services. [1305-1]

4503. Home Management Laboratory. (3). Practical application of theories of decision-making and group dynamics involved in management of resources of a home. PREREQUISITE: HMEC 2103. [1304-4]

HOUSING, HOME FURNISHINGS, AND RELATED ART (HMEC)

1104. Art in Everyday Life. (3). Elements of art and principles of design as they relate to practical aesthetics of living. [1305-1]

2004. Technical Skills for Home Furnishings. (3). Students interested in housing, home furnishing and related areas focus on various program of technical skills involving quick-skill problems, freehand floor-plans, and collage. For home economists, interior decorators, and students who desire to demonstrate concepts of depicting home furnishing interiors. [1302-1]

3004. Purchase and Use of Home Furnishings. (3). Principles of design and color theory applied to selection and arrangement of house and its furnishings. Lab experience required. [1305-1]

3204. Heating and Equipment. (3). (4203). Heating as it relates to conditions in family living. Principles underlying construction, use, and care of household equipment. [1305-1]

3704. Socio-Economic Aspects of Housing/Government and Housing. (3). Analysis of family housing needs and present social and economic conditions affecting housing, building, and government in the improvement in housing. PREREQUISITE: HMEC 1104. [1399-1]

4204-6204. Furnishings Problems and Presentations. (3). Problems in planning, coordinating, and purchasing of home furnishings. One lecture, three laboratory hours per week. PREREQUISITES: HMEC 2004, 4304. [1305-1]

4304-5304. Trends in Residential Furnishings. (3). (3104). Major trends and influences on contemporary residential furnishings as these affect home furnishings merchandising. PREREQUISITE: HMEC 3304. [1302-1]

4600. Seminar in Merchandising for Home and Fashion. (6). Concentrated study of factors influencing fashion and home economics merchandising. One lecture, four laboratory hours per week. PREREQUISITE: HMEC 4705. Home Furnishings concentration - HMEC 4705. Home Furnishings concentration - HMEC 4804.

4804. Home Furnishings Merchandising Practicum.* (6). Six weeks of full-time work experience in Home Furnishings Merchandising in approved business establishments. Students may not enroll for more than total of 12 semester hours during professional semester. PREREQUISITE: HMEC 4600. (S/U). [1302-5]

TEXTILES AND CLOTHING (HMEC)

1105. Clothing Selection and Construction. (3). Standards in selecting and purchasing construction of cotton garments to meet individual needs. One lecture, four laboratory hours per week. [1303-1]

2005. Introduction to Fashion Merchandising. (3). Introduction to the field of entertainment, apparel, operations, interlocking, and sales in fashion industry. Emphasis on merchandising terminology and techniques. [1303-1]

2205. Clothing Construction. (3). Fundamental principles of clothing construction, fitting and handling wool, silk, and synthetic fabrics. One lecture, four laboratory hours per week. PREREQUISITE: HMEC 2005. [1303-1]

3405. Consumer Problems in Clothing. (3). Clothing selection and buying for men and women, emphasis on individual needs and economic problems involved. [1303-1]

4305-6305. Trade Construction of Clothing. (3). Clothing construction based upon industrial trade methods and techniques. One lecture, four laboratory hours per week. PREREQUISITE: HMEC 2205. [1303-1]

4315. Internship in Clothing Services. (3). For teachers in areas of Occupational Clothing Services. Emphasis on utilizing knowledge and skills in clothing area in industrial setting. PREREQUISITE: All Occupational major subject matter courses must be completed previous to internship. (S/U). [1303-5]

4405-6405. Textiles. (3), (3035). Selection, use and care of textiles related to properties of fibers, yarn structures, fabric construction, and finishes. Merchandising and chemistry of fibers, dyes, finishes, maintenance and care involved in fiber, yarn, and fabric identification. [1303-1]

4505-6505. Tailoring. (3). Selection and construction of tailored wool garments, using various tailoring techniques. PREREQUISITE: HMEC 1105 and 2205. [1303-1]

4600. Seminar in Merchandising for Home and Fashion. (6). Concentrated study of factors influencing fashion and home furnishings merchandising. One lecture, three laboratory hours per week. PREREQUISITE: All major subject courses must be completed before the professional semester. COTG 2004. Fashion concentration - HMEC 4705. Home Furnishings concentration - HMEC 4804.

4705. Fashion Marketing Practicum.* (6). Eight (8) weeks of full-time work experience in Fashion Merchandising in approved business establishments. Students may not enroll for more than total of 12 semester hours during professional semester. PREREQUISITE: HMEC 4600. (S/U).

772 DISTRIBUTIVE EDUCATION (TED)

The Department of Home Economics /Distributive Education offers a major and minor in Distributive Education to prepare teacher-coordinators for vocational marketing and distributive education programs in high schools, technical institutes and community colleges.

(Students majoring in Marketing, or with concentration in Fashion Merchandising or Home Furnishings Merchandising may secure certificate to teach Distributive Education through this department.)

1101. Home Economics/Distributive Education. (1). Scope of areas in distributive education (teaching marketing, merchandising and related management); educational preparation needed, professional orientation, and field observations. [0838-1]

3010. Cooperative Occupational Education. (3). (Same as 1301-10). How work experience coordinated with related in-school instruction used to provide career preparation in marketing, office, industry, home economics, health and other fields of employment. [0838-11]

4611-6111. Principles and Philosophy of Vocational Education. (3). (1301-11). History, philosophy, principles and objectives of vocational education; curriculum problems; contribution of vocational-technical education to general education; trends in vocational-technical education. [0838-11]

4621. Visual Merchandising. (3). Theory and practice in visual merchandising (display), especially retail interior and window displays; visual display; display fixtures; window displays; and determining budgets. One lecture, four laboratory hours per week. [0838-11]

4630. Materials and Methods in Distributive Education. (3). Instructional materials and procedures used in high school postsecondary school marketing and distributive education classes. (Fall semester only). [0838-11]

4641-6641. Techniques of Coordination of Cooperative Occupational Education. (3). (Same as WETD 4641). Selecting training agencies; developing job analyses; selecting and brief training programs; establishing and maintaining advisory committees; utilizing other community resources. PREREQUISITE: WETD 4630 or consent of instructor. [0838-1]

4651. Basic Problems in Distributive Education. (1-3). Independent study of problems in practical application of vocational education to marketing and distribution of goods and services. (Fall semester only). [0838-11]

4680-6680. Development and Supervision of Vocational Student Organizations. (3). Aims and objectives of vocational student organizations; and their value in occupational preparation and development; curricular integration, operation and evaluation. [0838-11]

4690-6690. Workshop in Distributive Education. (1-9). Group study of selected phases of distributive education program; to assist both in-service and prospective distributive education teacher-coordinators in improvement of teaching-learning processes contained in three phases of program operation.

HOME ECONOMICS AND DISTRIBUTIVE EDUCATION

PROFESSOR DIXIE R. CRASE, *Interim Chairman*

Room 404, Manning Hall

A co-operative relationship exists with the Fashion Institute of Technology in New York City, whereby Merchandising majors may enroll for one semester of study in New York with the semester hours being transferred toward graduation at Memphis State University.

7707 GENERAL HOME ECONOMICS (HMEC)

1100. Home Economics as a Profession. (1). Scope of Home Economics; educational preparation, professional orientation and research; professional field work. (S/U). PREREQUISITE: Home Economics major. [1301-1]

3393. Occupational Education in Home Economics (3). History, philosophy, and organization of Home Economics Occupational Education; emphasis on instructional strategies and methods of teaching and on-site participation. PREREQUISITE: HMEC 3303. [1301-1]

4100. Senior Seminar in Home Economics. (1). Scope and direction of current research and trends in home economics; roles of modern women and understanding of professional ethics required of home economists. PREREQUISITE: senior home economics major. [1301-1]

4200. Readings in Home Economics. (1-3). For senior home economics majors; in-depth reading or research in area of specialization. PREREQUISITE: senior home economics major only. [1301-8]

4900-6900. Economics Study Tour. (1-3). On-the-job knowledge about specific academic areas of specialization within home economics. PREREQUISITE: permission of instructor. May be repeated with 3 hours maximum credit. [1301-9]

CHILD DEVELOPMENT AND FAMILY RELATIONSHIP (HMEC)

1101. Personal Development and Human Relations. (3). Individual and group adjustment, influences contributing to successful marriage and family life. [1305-1]

2101. Infant and Child Development. (3). Affective, cognitive, and psychomotor development of the child from conception to eight years of age; guided observation of infants and young children. [1305-1]

4101-6101. Nursery School Curriculum. (3). Application of child development principles to program planning, infancy through four years of age. [0823-1]

4201. Preparation For Marriage. (3). Courtship, marriage, and achievement of satisfaction in family life. PREREQUISITE: HMEC 1101. [1305-1]

classroom instruction, on-the-job training and youth organization advancement. May be repeated when topic varies. (S/U). [0838-1]

4700-6700. Distributive Education Student Team. (1-3). Opportunity gain on-the-job skills knowledge and skills for the field of instruction in high school marketing and distributive education. May be repeated; however, student should consult with major advisor to determine maximum credit which may be applied to degree program. PREREQUISITE: permission of instructor. [0838-1]

***4871-6871. Student Teaching in Distributive Education.** (3-9). Observation of operation of high school marketing and distributive education program and of methods of teaching; participation in school activities, culminating in assuming responsibility for teaching and coordinating entire groups. PREREQUISITE: DTED 4630. (Fall semester only). (S/U). [0838-1]

Graduate courses in Distributive Education. For details of the graduate program, see *The Bulletin of The Graduate School*.

* See information pertaining to requirements for admission to the student teaching program in section 7, Colleges and Degree Programs.

SPECIAL EDUCATION AND REHABILITATION

PROFESSOR WILLIAM M. JENKINS,
Chairman

Room 112, The Special Education Building

The Department of Special Education and Rehabilitation offers a major and minor in Special Education and a major in Rehabilitation Education.

5790 SPECIAL EDUCATION (SPER)

2000. Introduction to Exceptional Children. (3). Overview of field of special education, including historical perspective of the field, characteristics and education of children and youth in each area of exceptionality. [0808-1]

3002. Independent Study in Special Education. (1-6). Opportunity for self-directed study or research under supervision. PREREQUISITE: consent of department. [0808-1]

3003. Observation and Participation in Special Education. (1-3). Overview of field of practice in special education facilities available in the community. Short term observations of and participation with exceptional learners with opportunity for evaluation. (S/U). COREQUISITE: one semester hour in SPER 3201 or 3401 or 3501. [0808-1]

3004. Selected Topics in Special Education and Rehabilitation. (1-3). Investigation in selected areas) of special education and rehabilitation. May be repeated with change of topic. [0819-1]

3012. Methods, Materials and Curriculum of the Exceptional Learner I. (1-3). Curriculum, methods and instructional materials applicable to special educational needs of mentally retarded, learning disabled, and emotionally disturbed at primary, intermediate, and secondary levels. Emphasis on

Home Economics and Distributive Education - Special Education and Rehabilitation

applied programming techniques and implementation of remediation procedures. PREREQUISITE: SPER 2000. COREQUISITES: SPER 3013 and 3014. [0808-1]

3013. Practical Application of Special Education Methods and Materials I. (1-3). Planning and implementation of special education methods and materials with exceptional children. (S/U) PREREQUISITE: SPER 2000. COREQUISITES: SPER 3012 and 3014. [0808-1]

3014. Assessment of Exceptional Persons. (3). Tests and measurements used with exceptional persons, including psychological, social and other assessment instruments used in educational and vocational evaluation of exceptional persons. PREREQUISITE: SPER 2000. COREQUISITES: SPER 3012 and 3013. [0808-1]

3201. Introduction to the Education of Children with Emotional Problems. (1 or 3). Historical developments and current practices in identification and treatment of children with emotional problems. Emphasis on educational phase of treatment. Various characters and causes of emotional problems, and curricula planning. PREREQUISITE: SPER 2000. COREQUISITE: SPER 3003 (1 semester hour) [0816-1]

3401. Introduction to Children with Learning Disabilities. (1 or 3). Historical developments and current practices in identification and treatment of children with learning disabilities. Emphasis on causes, methods, and education of children with learning disabilities, and relationship of these concepts to academic failure. PREREQUISITE: SPER 2000. COREQUISITE: SPER 3003 (1 semester hour) [0818-1]

3501. Nature of Mental Retardation. (1 or 3). Historical developments and current practices in identification and treatment of mentally retarded. Magnitude of implications of mental retardation as they relate to incidence, causes, growth, maturation, and learning, and impact of these deficits on individual, on his family, and on society. PREREQUISITE: SPER 2000. COREQUISITE: SPER 3003 (1 semester hour). [0819-1]

3511. Programming for Trainable Mentally Retarded Children. (3). Diagnosis, classification, development of teaching materials and techniques, and interaction with trainable mentally retarded learners. PREREQUISITE: SPER 2000. [0810-1]

3901. Introduction to Disability Conditions and Their Helping Professions. (3). Physical, mental and socially disabling conditions and their effect on lives of handicapped and their families. Roles of various helping professions in rehabilitation of such conditions. [1222-1]

3911. Introduction to Vocational Evaluation of the Disabled/Handicapped Citizen. (3). Historical, philosophical and theoretical bases and present status of vocational evaluation. Survey of vocational evaluation process, principles, techniques, procedures, innovative methodologies and future trends. [1222-1]

3912. Introduction to Work Adjustment of the Disabled/Handicapped Citizen. (3). Historical and philosophical perspective of treatment process of work adjustment. Emphasis on identification of handicapped individual to work, personal and social situations and techniques to enhance adjustment process. [1222-1]

4002. Trends and Issues in Special Education. (3). Current trends and issues such as mainstreaming, law and the handicapped, working with the mentally handicapped, and knowledge of available services for handicapped and their families. [0808-1]

4012. Methods, Materials and Curriculum of the Exceptional Learner II. (3). Curriculum, methods, and instructional materials applicable to needs of gifted, crippled, and learners with special health conditions at primary, intermediate, and sec-

ondary levels. PREREQUISITES: SPER 3012, 3013, 3014. COREQUISITE: SPER 4013. [0808-1]

4013. Practical Application of Special Education Methods and Materials II. (3). Opportunity for planning and implementation of educational methods and materials with exceptional learners. (S/U) PREREQUISITE: consent of instructor. COREQUISITE: SPER 4012. [0808-5]

***4541. Student Teaching in Special Education.** (3-9). Orientation to the field of special education and exceptional children. May be repeated for a maximum of 15 hours. [15-19]

4801-6801. Workshop in Special Education and Rehabilitation. (1-9). For the professional in fields of special education and rehabilitation. Intensive study of current methodologies, research issues and trends in various areas of exceptionality and disability. Selection of topics for presentation. May be repeated when topic varies. (S/U). [0808-1]

4902. Social and Psychological Adjustments to Disabling Conditions. (3). Social and psychological ramifications of disabling conditions. Theoretical dealing with adjustment to physical, mental, and social disabilities extrapolated to mental and social disabilities. [1222-1]

4903. Helping and Human Relationships with Disabled Persons. (3). Focus on examining theories of human behavior and helping process as it relates to working with disabled persons. Theoretical dealing with adjustment to physical, mental, and social disabilities. [1222-1]

4904. Instructional Methods in Rehabilitation. (3). Theoretical background and practical application in vocational evaluation, vocational exploration and teaching jobs. [1222-1]

4905. Utilizing Client Information in Rehabilitation. (3). Use of biographical, psychological, medical and job information for case planning. [1222-1]

4912. Diagnostic Techniques for the Disabled/Handicapped Citizen. (3). In-depth study of processes, principles and techniques used to diagnose general assets and limitations of handicapped/disabled individual. Emphasis on use of biographical data, evaluation interview and rationales for selection of test instruments for diagnostic tests. PREREQUISITE: consent of instructor. [1222-1]

4914. Prognostic Vocational Evaluation for the Disabled/Handicapped Citizen. (3). Processes, principles and techniques used to determine and predict future best vocational outcome for handicapped/disabled individual. Selection and use of appropriate occupational exploration programs, work samples, situational tasks, simulated work experience and the job tryouts. PREREQUISITE: SPER 3012 or consent of instructor. [1222-1]

4915. Prescriptive Vocational Evaluation for the Disabled/Handicapped Citizen. (3). Techniques of synthesizing information gained in SPER 4913, 4914. Interpretation of data through formal staff conference, vocational counseling and individualized job placement. PREREQUISITES: SPER 4913 and SPER 4914 or consent of instructor. [1222-1]

4916. Practical Sample Development for the Disabled/Handicapped Citizen. (3). Development, standardization and validation of work samples. Techniques of job analysis and community surveys and completion of a work sample based on local labor market information. PREREQUISITE: consent of instructor. [1222-1]

4941. Practicum in Rehabilitation. (3-6). Practical experiences in various rehabilitation settings. (S/U). PREREQUISITE: SPER 3901 or consent of instructor. [1222-5]

Graduate Courses in Special Education: see *The Bulletin of The Graduate School*.

* See information pertaining to the requirements for admission to the student teaching program in section 7, Colleges and Degree Programs.

THE HERFF COLLEGE OF ENGINEERING

Q840 ENGINEERING CORE COURSES (ENGR)

1001. Introduction to Engineering. (1). History and nature of engineering as profession, including industrial practices, applications of engineering to society, and the role of engineering to engineering problems and systems. One lecture hour per week. PREREQUISITE: freshman having engineering inclinations. [0901-1]

1011. Engineering Computer Programming. (3). Introduction to role of digital computer in engineering systems; application of computer systems to analysis and design; introduction to computer programming languages. One lecture three laboratory hours per week. [0901-1]

1021. Engineering Graphics. (2). Role of graphical communication in engineering practice; sketching and drafting techniques used in design, elements of descriptive geometry. One lecture/three laboratory hours per week. [0901-1]

3101. Computer Methods in Civil Engineering. (3). Civil engineering applications of fundamental methods of numerical analysis; advanced programming techniques. Three lecture hours per week. PREREQUISITES: ENGR 1011; MATH 3391. [0908-1]

3111. Field Measurements. (3). Principles of field measurements, earthwork calculations, alignment of curves, error analysis. Two lecture, three laboratory hours per week. PREREQUISITE: ENGR 1011; MATH 2331. [0901-1]

3121. Structural Analysis I. (3). Statistically determinate structural systems; analytical and numerical solutions; influence lines; maximum deflection and reaction forces per hour. PREREQUISITE: CIVL 2311. [0908-3]

3122. Structural Analysis II. (3). Analytical and numerical solutions for statically indeterminate structures. Three lecture hours per week. PREREQUISITES: CIVL 3121; MECH 3322. [0908-3]

3131. Design of Steel Structures. (3). Current design concepts for structural steel members and their connections. Three lecture, three laboratory hours per week. PREREQUISITES: CIVL 3121, MECH 3322. [0908-3]

3135. Properties of Concrete. (3). Study of aggregates, aggregate-bonafide, properties of portland cement, mix design, testing of plain concrete, quality control of concrete and methods of evaluating concrete test data. Two lecture, three laboratory hours per week. PREREQUISITE: MECH 3331. [0908-1]

3136. Bituminous Materials Engineering. (3). Source, manufacture, processing, types, constituents, tests, chemical behavior, specifications and uses of bituminous materials and

aggregates in pavement mix design and construction. Two lecture, three laboratory hours per week. PREREQUISITE: MECH 3322. [0908-1]

3141. Engineering Economics. (3). Application of economics and decision theory to engineering alternatives in planning, design, constructing, and managing engineering projects. Three lecture hours per week. PREREQUISITE: ECON 2110. [0901-1]

4131-6131. Intermediate Steel Design. (3). Design of plate girders and composite beams; moment connections; building design. Three lecture hours per week. PREREQUISITE: CIVL 3131. [0908-1]

4135. Reinforced Concrete Design. (3). Strength analysis and design of reinforced concrete members; floor systems; current code provisions. Three lecture hours per week. PREREQUISITE: CIVL 3122. [0908-1]

4136-6136. Intermediate Reinforced Concrete Design. (3). Design of two-way slab systems; column design including layout after integrated building design using current code provisions. Three lecture hours per week. PREREQUISITE: CIVL 4135. [0908-1]

4141. Water and Wastewater Engineering. (3). Water and wastewater treatment fundamentals; water quality and treatment; biological, physical, and chemical biological treatment of wastewater; design of water and wastewater treatment units; solid waste management. Three lecture hours per week. PREREQUISITE: MECH 3331. [0908-1]

4143-6143. Environmental Engineering I. (3). Basic physical chemical treatment concepts for water and wastewater with laboratory demonstration of unit operations and processes as

CIVIL ENGINEERING

PROFESSOR THOMAS S. FRY, Chairman

Room 104A, Engineering Building

Q800 CIVIL ENGINEERING (CIVL)

2131. Statics. (3). Analysis of two and three dimensional systems, centroids and moment of inertia, friction. Three lecture hours per week. PREREQUISITE: PHYS 2511. [0908-1]

well as derivation of design data through laboratory studies. **Two lecture/three laboratory hours per week.** PREREQUISITE: senior standing or consent of instructor. [0922-1]

4144. Environmental Engineering II. (3). Basic biological treatment concepts for wastewater with laboratory demonstration of unit operations as well as derivation of design data through laboratory studies. **Two lecture/three laboratory hours per week.** PREREQUISITE: senior standing or consent of instructor. [0922-1]

4148. Hydraulics and Hydrology. (3). Quantification of precipitation and runoff, flood routing, open channel flow, culvert and sewer design, pipe network distribution systems, pumps and groundwater hydrology. **Three lecture hours per week.** PREREQUISITE: ELEC 3211. [0909-1]

4151. Soil Mechanics. (4). Physical-chemical basis of soil structure, identification and classification, permeability, compressibility, and shear strength. **Three lecture, three laboratory hours per week.** PREREQUISITES: MEC 3322, 3331. [0909-1]

4152. Applied Soil Mechanics. (3). Applications of theory to design of building foundations, retaining walls, and hydraulic structures. **Three lecture hours per week.** PREREQUISITE: CIVL 4151. [0921-1]

4161. Transportation Systems Engineering. (3). Development of fundamental transportation system elements, operational and architectural system coordination, traffic flow and patterns. **Three lecture hours per week.** PREREQUISITE: senior standing in civil engineering. [0908-3]

4162-6162. Traffic Engineering. (3). Traits and behavior patterns of drivers, their vehicles, and the road. Includes traffic signs and signals, pavement markings, hazard reduction capacity, accidents, and parking analysis. PREREQUISITE: approval of instructor. [0908-3]

4164-6164. Advanced Surveying. (3). Elements of route location and design, emphasis on horizontal and vertical alignment, curvature, gradients and sight distance. **Two lecture, three laboratory hours per week.** PREREQUISITE: CIVL 3111. [0908-1]

4171. Construction Engineering I. (3). Planning, estimating, and scheduling of heavy construction projects, development of scheduling algorithms, control of construction projects, linear programming, and other optimization techniques and their application to resource allocation and bidding strategy. **Three lecture hours per week.** PREREQUISITE: CIVL 4170. [0908-1]

4172. Construction Engineering II. (3). Selection of equipment for heavy construction projects, cost analysis, production, procedures and safety aspects of construction operations, emphasis on heavy construction project synthesis. **Two lecture, three laboratory hours per week.** PREREQUISITE: CIVL 4171. [0908-1]

4173. Construction Contracts and Specifications. (3). Principles of contract law as applied to heavy construction engineering; legal problems in preparing and administering construction contracts; varieties of construction contracts, specification organization and interpretation; engineer-client relationships. **Three lecture hours per week.** PREREQUISITE: consent of instructor. [0908-1]

4174. Quality Control in Heavy Construction. (3). Development and control of quality in heavy construction, including quantitative and statistical techniques for establishing contract compliance; quality assurance sampling, testing, and additional construction control techniques. **Three lecture hours per week.** PREREQUISITE: consent of instructor. [0908-1]

4191. Civil Engineering Projects. (1-3). Independent investigation of a Civil Engineering problem in consultation with instructor. PREREQUISITE: consent of instructor. [0908-8]

lecture, three laboratory hours per week. PREREQUISITE: ELEC 3211. [0909-1]

4201. Electronics I. (3). Emphasis on laboratory techniques in the principles of electronic circuit elements. **Three laboratory hours per week.** PREREQUISITE: ELEC 3211. [0909-1]

3220. Engineering Computer Systems. (3). Basic structure and organization of computer systems, and the peripheral equipment. Digital representation of data, basic instruction sets, instruction execution and addressing techniques. Basic program structure in machine language. Subroutine and utility programs, systems programs, and other software. Formulation of problems, use of computers, and input-output oriented toward computer-controlled systems. **Three lecture hours per week.** PREREQUISITE: ENGR 1011. [0702-1]

3221. Matrix Computer Methods in Electrical Engineering. (3). Application of matrix theory to solution of circuit problems. State-space analysis in concept of circuit, circuit analysis, and controls problems of microwave circuits in the solution of basic electromagnetic problems. **Three lecture hours per week.** PREREQUISITE: ELEC 3201. [0705-1]

3222. Introduction to Engineering Instrumentation. (4). Transducers for physical systems. Mechanical, temperature, magnetic, and electrical transducers. Methods of processing and analyzing data. **Three lecture, three laboratory hours per week.** PREREQUISITE: ELEC 3212. [0909-1]

4201. Energy Conversion. (3). Energy conversion by electromechanical, thermal, and magnetic systems, transformers and electrical machines. **Three lecture hours per week.** PREREQUISITE: ELEC 2201. [0909-1]

4202-6202. Electrical Power Systems. (3). Investigation of problems associated with transmission of electrical energy, power flow studies, and fault analysis by use of symmetrical components. **Three lecture hours per week.** PREREQUISITE: permission of instructor. [0909-1]

4203. Energy Conversion Laboratory. (1). Fundamental properties associated with testing and utilization of direct current and alternating current components such as motors, generators, alternators, and transformers. **Three laboratory hours per week.** PREREQUISITE: ELEC 4201. [0909-1]

4211. Electromagnetic Field Theory I. (4). Maxwell's equations, electrostatics, magnetostatics and time varying electromagnetic fields. **Three lecture hours per week.** PREREQUISITE: ELEC 4211. [0909-1]

4212-6212. Electromagnetic Field Theory II. (4). Plane, cylindrical and spherical waves, high frequency transmission lines; introduction to microwave and antenna theory. **Three lecture, three laboratory hours per week.** PREREQUISITE: ELEC 4212. [0909-1]

4213. Antenna Theory and Design. (4). Continuation of 4212. Emphasis on theory of operation and design of antennas. Determination of antenna radiation characteristics. Introduction to antenna array theory. **Three lecture, three laboratory hours per week.** PREREQUISITE: ELEC 4212. [0909-1]

4214-6214. Pulse and Digital Circuits. (4). Timing, triggering and pulse circuits, astable, bistable and monostable multivibrators, binary counting circuits. **Three lecture, three laboratory hours per week.** PREREQUISITE: ELEC 3212. [0909-1]

4220-6220. Introduction to Logical Design and Switching Circuits. (3). Analysis and design of logical switching circuits logic, number systems, digital computer components. **Three lecture hours per week.** PREREQUISITE: ELEC 3211 or permission. [0702-1]

4225-6225. Data Communications Systems. (3). Data communication in information and computing systems. Analog and digital means of transmitting and controlling information. Organization and requirements of data communication systems, including modulation and demodulation, multiplexing, transmission media, data transmission rates, error detection and non-real time, and time sharing systems. **Three lecture hours per week.** PREREQUISITE: ELEC 3212 or permission. [0702-1]

4231-6231. Communication Theory. (3). Frequency and time modulation, random signal theory, autocorrelation, basic information theory, noise, communication systems. **Three lecture hours per week.** PREREQUISITE: ELEC 3212. [0909-1]

4235-6235. Discrete Signal Processing. (3). Introduction to deterministic and random discrete signals, signal analysis, and detection and estimation of signals. Applications to computer processing, biomedical, seismic, and radar signals. PREREQUISITE: ELEC 3202. [0703-1]

4240-6240. Solid State and Quantum Electronics. (3). Quantum tunneling concepts, Schrodinger equation, quantization of electromagnetic radiation. Laser theory and application. **Three lecture hours per week.** PREREQUISITE: senior standing. [0909-1]

4241-6241. Solid State Physics Electronics. (3). Quantum effects in crystals, semiconductors, conductors, insulators in pure, p-n junctions and devices, field-effect devices, charge transfer devices. **Three lecture hours per week.** PREREQUISITE: ELEC 3211. [0909-1]

4245-6245. Electro-Optical Systems. (3). Principles of electro-optical systems, applications of electro-optical devices such as lasers, trackers, FIRs, infrared sources and detectors. Video techniques for display and analysis. **Three lecture hours per week.** PREREQUISITE: senior standing. [0909-1]

4251-6251. Control System Engineering. (4). General equations of physical systems and transfer functions. Transfer analysis and synthesis of servo systems. Bode plot, Nichols chart, Nyquist plot, Root-Hurwitz criterion, root locus methods, introduction to compensation techniques and systems in state space. **Three lecture, three laboratory hours per week.** PREREQUISITES: ELEC 3202, 4201. [0909-1]

3212. Electronics II. (4). Power amplifiers, feedback amplifiers; oscillators; modulation and detection, rectifiers. **Three**

4261-6261. Introduction to Network Synthesis. (3). Synthesis of canonical LC, RL, RC, and RLC driving point impedances. Analysis and reduction of lossy networks. **Three lecture hours per week.** PREREQUISITE: ELEC 3202. [0909-1]

4270-6270. Introduction to Microprocessors. (3). LSI circuit, microprocessor architecture, hardware and software, assembly language, and program design using a Microprocessor Simulator. **Three lecture hours per week.** PREREQUISITE: ELEC 3220. [0701-1]

4271-6271. Microcomputer Applications. (3). Introduction to common peripheral devices and interfacing techniques. Use of high level languages to aid in microcomputer system design. Microprocessor applications. **Three lecture hours per week.** PREREQUISITE: ELEC 3202. [0701-1]

4991. Electrical Engineering Projects I. (1-3). Independent investigation of problem selected in consultation with instructor; report required. PREREQUISITE: senior standing [0908-8]

4992. Electrical Engineering Projects II. (1-3). Design, construction and testing of projects investigated in ELEC 4991; report required. PREREQUISITE: ELEC 4991. [0908-8]

ENGINEERING TECHNOLOGY

PROFESSOR W.T. BROOKS, Chairman

Room 203, Technology Building

Q890 ARCHITECTURAL TECHNOLOGY (TECH)

1955. History of Architecture. (3). Major trends in architecture from prehistoric times to present. Emphasis on impact of architectural and social changes on prevailing architectural styles. [0925-1]

2555. Architectural Design I. (4). Fundamentals of architectural design; basic techniques of drafting, perspectives, presentation and working drawing. **Three lectures, three laboratory hours per week.** [0925-1]

2556. Site and Environmental Planning. (3). Building sites; selection and utilization, including environmental influences. Technical aspects such as zoning, contour lines, parking, ingress/egress, site drainage, building location and landscaping. **Three lecture, two laboratory hours per week.** PREREQUISITE: TECH 2555. [0913-1]

2561. Building and Construction Systems. (3). Comprehensive study of building types and building systems as they relate to architectural technology. **Two lecture, two laboratory hours per week.** PREREQUISITE: TECH 2556. [0925-1]

3491. Structural Design I. (3). Fundamentals of structural analysis; analysis of steel and reinforced concrete beams and building components. PREREQUISITES: MATH 1321, TECH 3401 [0925-1]

3472. Structural Design II. (3). Fundamentals of structural design and analysis of concrete buildings and building components. PREREQUISITES: MATH 1321, TECH 3401. [0925-1]

3473. Structural Design III. (3). Fundamentals of structural analysis of steel and reinforced concrete beams and building components. PREREQUISITE: TECH 2555. [0925-1]

3531. Architectural Design III. (4). Continuation of TECH 3473. **Three lecture, three laboratory hours per week.** PREREQUISITES: TECH 3473, 3411. [0925-1]

4255-6255. Building Codes and Regulations. (3). Codes and regulations in general, that influence the design and construction of buildings. Specific study of the local building code and regulations that influence building construction. [0925-1]

4530-6530. Architectural Specifications and Contracts. (3). Examination of typical contract documents beginning with preparation of the bid documents. **One lecture, two laboratory hours per week.** PREREQUISITES: TECH 3473, 3411. [0925-1]

4255-6255. Building Codes and Regulations. (3). Codes and regulations in general, that influence the design and construction of buildings. Specific study of the local building code and regulations that influence building construction. [0925-1]

4530-6530. Architectural Specifications and Contracts. (3). Examination of typical contract documents beginning with preparation of the bid documents. **One lecture, two laboratory hours per week.** PREREQUISITES: TECH 3473, 3411. [0925-1]

2261. Data Structures. (4). (3251) Application of high speed digital computer to problems associated with storage and retrieval of numerical and non-numerical data in engineering systems. **Three lecture, three laboratory hours per week.** PREREQUISITE: ENGR 1011 or TECH 1010. [0925-3]

2262. Data Structures. (4). (3251) Application of high speed digital computer to problems associated with storage and retrieval of numerical and non-numerical data in engineering systems. **Three lecture, three laboratory hours per week.** PREREQUISITE: TECH 2551 or equivalent [0925-3]

3271. Computer Simulation Technology I. (4). Languages designed for simulation of physical systems. Includes general

ELECTRICAL ENGINEERING

PROFESSOR THOMAS DEWEY SHOCKLEY, JR., Chairman

Room 206B, Engineering Building

Q820 ELECTRICAL ENGINEERING (ELEC)

2201. Circuit Analysis I. (3). Fundamental properties of electrical circuits, basic concepts and circuit elements, analysis methods and network theorems; sinusoidal steady-state response; introduction to transients. **Three lecture hours per week.** PREREQUISITE: ELEC 2200. [0909-8]

2202. Circuit Analysis II. (4). Continuation of ELEC 2201. Resonance, impedance and admittance functions, network theorems and analysis, complex frequency plane, polyphase networks and magnetic coupling. **Three lecture, three laboratory hours per week.** PREREQUISITE: ELEC 2201. [0909-1]

2203. Circuits Analysis Laboratory. (1). Introduction to utilization of meters, oscilloscopes, oscillators, power supplies and related test equipment in experimental verification of basic electric circuit theory. **Three laboratory hours per week.** PREREQUISITE: ELEC 2201. [0909-1]

2204. Circuit Analysis Projects. (1-3). Independent investigation of a Civil Engineering problem in consultation with instructor. PREREQUISITE: consent of instructor. [0908-8]

2205. Solid State Physics. (3). Quantum effects in crystals, semiconductors, conductors, insulators in pure, p-n junctions and devices, field-effect devices, charge transfer devices. **Three lecture hours per week.** PREREQUISITE: ELEC 3211. [0909-1]

2245-6245. Electro-Optical Systems. (3). Principles of electro-optical systems, applications of electro-optical devices such as lasers, trackers, FIRs, infrared sources and detectors. Video techniques for display and analysis. **Three lecture hours per week.** PREREQUISITE: senior standing. [0909-1]

2251-6251. Control System Engineering. (4). General equations of physical systems and transfer functions. Transfer analysis and synthesis of servo systems. Bode plot, Nichols chart, Nyquist plot, Root-Hurwitz criterion, root locus methods, introduction to compensation techniques and systems in state space. **Three lecture, three laboratory hours per week.** PREREQUISITES: ELEC 3202, 4201. [0909-1]

purpose languages, as well as languages designed for electronics and construction technology. Laboratory consists of application of analog, digital and hybrid computers to simulate large scale systems. *Three lecture, three laboratory hours per week. PREREQUISITE: MATH 1093-1 or equivalent. [0925-1]*

4241-6241 Computer Simulation Technology (4). Advanced simulation methods with particular emphasis on simulators using a dedicated computer. Problems and limitations of real-time simulations typical to aerospace and nuclear industry. Special and advanced techniques for business and industrial applications. *Three lecture, three laboratory hours per week. PREREQUISITE: TECH 3271 or permission of instructor.*

4251-6251 Assembly Language Programming (4). Investigation of a particular mini-computer from programmer's viewpoint. Includes machine representation of data, instructions, programs, memory, assembly language, memory and device, circuit and network theorems, laboratory emphasis on basic electrical principles and proper use of instruments. *Two lecture, three laboratory hours per week. PREREQUISITE: TECH 2531. [0925-1]*

4261-6261 Computer Electronics Technology (4). Applications of problem oriented languages to procedure oriented languages to problems from selected areas of engineering technology. Includes data collecting, modeling techniques, constraints, program development and validation. Areas of emphasis include: how to use computers. *Three lecture, three laboratory hours per week. PREREQUISITE: TECH 2251 or permission of instructor. [0925-1]*

4271-6271 Computer Techniques (4). Advanced computer techniques in industry. Includes APT programming for NC machine tools, application of computer to solve PERT networks, application of computer to production planning and control. *Three lecture, three laboratory hours per week. PREREQUISITE: TECH 2531. [0701-2]*

4831-6831 Computer Technology I (3). Introduction to digital and analog computer hardware relating to computing circuits and systems; numbers systems; switching and logic circuits; memory; input and output devices; principles of program control. *Two lecture, three laboratory hours per week. PREREQUISITE: TECH 2831 or permission of instructor. [0701-1]*

4832-6832 Computer Technology II (3). Introduction to internal computer organization and configuration design; components and their characteristics; data representation and storage; Boolean algebra and logic circuits. *Two lecture, three laboratory hours per week. PREREQUISITE: TECH 4831 or permission of instructor. [0701-1]*

4834-6834 Digital Systems in Technology (4). Industrial and commercial applications of microcomputers and microprocessors. *Three of operation of microcomputers and microprocessors, memory and input/output devices; techniques of programming, testing and maintenance. Three lecture, three laboratory hours per week. PREREQUISITE: TECH 4832. [0701-1]*

4835 Microprocessor Interfacing Techniques (4). Application of microprocessors to equipment emphasis on interface problems. Techniques employing conventional logic devices as well as LSI components. Testing and maintenance techniques of equipment using microprocessor based design. *Three lecture, three laboratory hours per week. PREREQUISITE: TECH 4834. [0925-1]*

Q890 CONSTRUCTION TECHNOLOGY (TECH)

1451. Introduction to Surveying. (3). Surveying practices, calculations, and use of topographical conventions. *Two lecture, three laboratory hours per week. PREREQUISITES: TECH 1411 and MATH 1212. [0925-1]*

3412. Soil Technology in Construction. (3). Soil technology as applied to construction field. Fundamental properties of soils, soil classification, soil compaction, high and low retaining walls and slope stability. Relationships between soil characteristics and geologic formations. *Two lecture, three laboratory hours per week. PREREQUISITE: junior standing or approval of instructor. [0925-1]*

3414. Construction Administration. (3). Ethical practice, social responsibility, licensing codes, and public regulation of contracting, specification writing and interpretation, functions of architect-engineer and owner, construction contracts, bonding, insurance, indemnification, labor agreements and public bidding. *Two lecture, three laboratory hours per week. PREREQUISITE: junior standing. [0925-1]*

3451. Construction Surveying Methods. (3). Methods, techniques and formulas necessary to establish controlling points at any construction site. Both office and field procedures required to locate centerlines and bounds of structures. *PREREQUISITE: TECH 1451. [0925-1]*

3491. Estimating. (3). Study and practice of specifications, budget procedures, and estimating. *PREREQUISITE: TECH 2555. [0925-1]*

3591. Land Surveying. (3). Historical background of property surveys. Writing adequate land descriptions. Interpretations of old descriptions. Excess and deficiency. Riparian rights. Field practice. *Two lecture, three laboratory hours per week. PREREQUISITE: TECH 1451. [0925-1]*

4510. Construction Planning and Scheduling. (3). Principles of planning scheduling, organizing, and controlling construction projects. Studies in critical path method (CPM) and PERT, with resource leveling and financial scheduling. Computer applications in CPM and PERT emphasized. *Two lecture, three laboratory hours per week. PREREQUISITE: senior standing. [0925-1]*

4520. Construction Methods and Equipment. (3). Theory and practice of construction operations; equipment utilization, construction methods, analysis of costs, crew and equipment. *PREREQUISITE: senior standing. [0925-1]*

4522-6522 Construction Logistics. (3). Theory and practice of construction project bidding using statistical concepts of probability and computer applications. Office procedures, job and cost control, and analysis of site plans and completing construction contracts. *PREREQUISITE: senior standing. [0925-1]*

Q890 ELECTRONICS TECHNOLOGY (TECH)

1811. Electronics Technology I. (3). (Same as CMUS 1811.) Introduction to fundamental electronics. Basic theory of electricity and circuit, and network theorems, laboratory emphasis on basic electrical principles and proper use of instruments. *Two lecture, three laboratory hours per week. PREREQUISITE: MATH 1213. [0909-1]*

1821. Electronics Technology II. (3). Circuit analysis methods in modern electronics technology. Laboratory confirmation of theory, applications of alternating currents, AC power, Direct and Alternating Currents. *Two lecture, three laboratory hours per week. PREREQUISITE: TECH 1811. [0925-1]*

2821. Electronics Technology III. (3). Theory of solid-state devices and electron tubes with applications in power supplies, amplifiers, and basic electronic circuit. *Solid State devices, diodes, junctions, transistors, field effect transistors emphasized. Two lecture, three laboratory hours per week. PREREQUISITE: TECH 1811. COREQUISITE: TECH 1821. [0909-1]*

2831. Electronics Technology IV. (3). Theory of semiconductors and their applications in multistage circuits, sinusoidal and nonsinusoidal oscillators, and other fundamental electronic circuits. Both discrete components and integrated circuits; emphasis on integrated circuits. *Two lecture, three laboratory hours per week. PREREQUISITE: TECH 2821. [0909-1]*

3811. Electronics Communications. (3). Principles of modulation and demodulation, in depth, together with associated radio transmitter and receiver circuitry, telephone application, and electronic navigational aids. *Two lecture, three laboratory hours per week. PREREQUISITE: TECH 2831. [0925-1]*

3821. Industrial Electronics. (3). Electronic circuits and systems in modern industry. Theory and industrial applications of devices such as gas and vacuum tubes, unijunction transistors, diodes, transistors, logic gates, opto-electronic devices, and synchrons. *Two lecture, three laboratory hours per week. PREREQUISITE: TECH 2831. [0925-1]*

3822. Control Instrumentation. (4). Theory of application of automatic control equipment, principles, operations and construction of pneumatic, hydraulic, electrical, and automatic control systems. *Three lecture, three laboratory hours per week. PREREQUISITE: TECH 3821 or permission of instructor. [0925-1]*

3841. Advanced Applied Electricity. (3). Generation and utilization of single and polyphase electrical power in home and industry, including generators, motors, starters, starters in both individual and system applications. *Two lecture, three laboratory hours per week. PREREQUISITE: TECH 1821. [0909-1]*

3861. Advanced Equipment and Studio Techniques. (3). (Same as CMUS 3861.) Application of electronic equipment to studio production, magnetic tape recorders, signal processing equipment, studio consoles, noise reduction devices, speakers, and studio session procedures. *Three lecture, two laboratory hours per week. PREREQUISITE: TECH 1811. [0925-1]*

3862. Magnetic Recording and Mixing. (3). (Same as CMUS 3862.) Recording and mixing techniques, magnetic tape, equalization, degaussing, different types of studio recording and associated equipment; techniques of recording, mixing, and special effects. *PREREQUISITE: TECH 2831. [0925-1]*

4801. Antenna Technology. (4). Detailed examination of transmission lines and antennas, using applications approach with minimum of purely mathematical analysis, applications in both wire and wireless systems. *Three lecture, three laboratory hours per week. PREREQUISITE: TECH 1801. [0925-1]*

4811. Advanced Electronic Communications Technology. (3). Concepts, systems and practical applications in generation, transmission and detection of aural, data and visual information in analog and digital form. *Three lecture hours per week. PREREQUISITES: TECH 4821 and 4834. [0701-1]*

4821. Microwave Technology. (4). Generation and transmission of microwave signals, 300 megahertz, emphasizing techniques and equipment which contrast sharply with those at lower frequencies. *Three lecture, three laboratory hours per week. PREREQUISITE: TECH 3811. TECH 4801. [0925-1]*

4841. Video Communications. (3). Theory and application of technical equipment for generation, transmission, and reception of video signals, both closed circuit and broadcast. *Two lecture, three laboratory hours per week. PREREQUISITE: TECH 3811. [0925-1]*

4881. Studio Sound Systems. (3). Recording studio as integrated sound system; classification of microphones, design of loudspeaker circuitry and functions of sophisticated mixing console. *PREREQUISITE: TECH 2831. [0925-1]*

Q890 INDUSTRIAL ARTS (TECH)

3831. Industrial Arts Electronics. (3). (Same coverage of applied electronics for prospective teachers. *Two lecture, three laboratory hours per week. PREREQUISITE: TECH 1821. [0909-1]*

4355 Energy and Power Technology. (3). Principles of energy systems and power mechanics to include energy sources, conversion and transmission. Internal and external combustion engines, alternators and generators. *Solar, wind, solar and alternative energy sources including laboratory experiments and problem of small engine and energy sources. Two lecture, three laboratory hours per week. [0925-1]*

4361-6361 Organization and Management of the School Shop. (3). Understanding and application of vocational training program organization and classroom management techniques. *Industrial management, administration, training are layout of equipment, faculty update, curriculum utilization and budgeting. [0925-1]*

4362. Shop Equipment Maintenance. (3). Understanding of preventive maintenance, maintenance and calibration of instruments and other equipment used in industrial education shop. *[0925-1]*

4363-6363 School Shop Safety. (3). Overview of evolving school safety standards as prescribed by OSHA and TOSHA. Understanding and application of safety standards. Includes OSHA and TOSHA standards, fire prevention, C.P.R., school shop safety programs, and accident prevention. *[0925-1]*

4375. Crafts for Teachers. (3). Study and experience with craft materials. *[0925-1]*

Q890 MANUFACTURING TECHNOLOGY (TECH)

1511. Graphics I. (3). Introduction to graphic representation and presentation. Basic exercise in lettering, use of instruments, drafting, geometric construction and projections; how to problem solving, sketching. *Two lecture, three laboratory hours per week. [0925-1]*

1611. Introduction to Forest Products Technology. (3). Lecture and related laboratory activities employed to study fundamental concepts of wood utilization, wood fabrication, design, and processing of wood products. Includes wood physiology, wood laminating and bending wood anatomy, wood finishing, and the organization of forest products and industries. *Two lecture, three laboratory hours per week. [0925-1]*

1711. Machine Production Techniques. (3). Metallurgy emphasis on properties and characteristics of production usage, including: cast, liquid, cut, forged, cast, and wrought, tool grinding, drafting, tapping, shaping, turning, and milling. *Three lecture, three laboratory hours per week. [0925-1]*

2511. Descriptive Geometry. (3). Points, lines and planes in space; emphasis on application to problems of technological nature. *Two lecture, three laboratory hours per week. PREREQUISITE: TECH 1811. [0925-1]*

3306. Occupational Safety. (3). (3307.) Hazards and safety procedures for general industry and construction. *[0925-1]*

3410. Plastic Properties and Processes. (3). Classification and properties of basic groups of plastics and industrial processes and techniques used in transforming raw materials into usable products. *Two lecture, three laboratory hours per week. PREREQUISITE: TECH 3821. [0925-1]*

3421. Manufacturing Process and Numerical Control. (3). Processes and techniques used to shape materials into useful products. Techniques include cutting, molding, stamping, extruding, cold and hot forming, and grinding. Principles and applications of numerical control also considered. *Three lecture, three laboratory hours per week. PREREQUISITE: TECH 1711. [0925-1]*

3424. Product Pretreatment and Finishing. (3). Introduction to product pretreatment and finishing; emphasis on methods, materials, and equipment. *Test procedures and environmental aspects also investigated. [0925-1]*

3430. Dynamic Systems and Material Design. (3). Basic graphical consideration of materials, links, mechanisms and their relation to dynamic properties such as force, mass and acceleration. *PREREQUISITES: TECH 2511, 2944 and 3400. TECH 1711. [0925-1]*

3601. Light Frame Building Construction. (3). Contemporary light frame building construction; emphasis on estimating, materials, and procedures. *[0925-1]*

3611. Industrial Wood Processing. (3). Lecture and related laboratory activities to study wood product mass production; with emphasis on wood product design, process engineering, wood related materials, wood substitutes, and industrial finishing. *Two lecture, three laboratory hours per week. PREREQUISITE: TECH 1611. [0925-1]*

3631. Wood Technology. (3). Lecture and related laboratory activities to study anatomy, characteristics, and properties of wood; cause of wood defects and deterioration and wood identification. *Two lecture, two laboratory hours per week. [0925-1]*

3718. Welding and Metallurgy. (3). (3731.) Properties of metals; emphasis on physical and mechanical properties related to welding, cold and hot, welding, heat treating and testing. *Three lecture, two laboratory hours per week. [0925-1]*

4460-6460. Motion and Time Analysis. (3). Methods improvement, motion economy, and development of time standards, and synthesis. *[0925-1]*

4462-6462. Statistical and Quality Control. (3). Statistical methods for analyzing quality problems; include control charts for variables and attributes; single, double and multiple control charts; process control; and computer applications to quality assurance. *[0925-1]*

4464-6464. Production Control. (3). Planning and control of production; emphasis on intermittent and continuous manufacturing. Fields of study include forecasting, designing control forms using visual controls, scheduling, dispatching, preplanning, and using critical path methods. *[0925-1]*

4466-6466. Layout. (3). Designing a plant with respect to material handling, machine location, auxiliary services, capital requirements, safety, and personnel organization. *[0925-1]*

4470-6470. Human Performance in Manufacturing. (3). Man-machine system; physical system, man's motivation, physical and psychological capabilities, and emotions related to work and workplace. Applications through lab experiences and plant visits. *Two lecture, three laboratory hours per week. [0925-1]*

4472. Computer Aided Design and Manufacturing. (3). Current state of the art regarding use of computers for product and part manufacture and assembly. Topics include software and hardware used in cad/cam, current trends in automated factory, group technology, robotics. [0925-1]

4571. Machine and Tool Design. (3). Study and analysis of basic machine elements in assemblies. Layout of fixtures, jigs and dies for production tooling. Two lecture, three laboratory hours per week. PREREQUISITES: TECH 2511 and 3401. [0925-1]

4572. Safety and Injury Management. (3). (3921, 3931). Study of modern concepts of accident prevention by means of safety analysis. Analyses of responsibilities and requirements of management in producing safe consumer products. Emphasis on electrical and mechanical hazards. [0925-1]

4961. Industrial Hygiene. (3). Potential hazards to worker and environment. Exposure of worker to toxic materials and physical agents, sampling techniques, methods of determining exposure and methods of prevention. [0913-1]

Q980 SUPPORTING COURSES (TECH)

1010. Introduction to Computer Usage. (3). Instruction on how computers operate. Methods of communicating with computers through input and output devices. Elementary and familiar calculations programmed in BASIC. Hands-on operations with computer and peripheral equipment. Two lectures, three laboratory hours per week. PREREQUISITE: High School Mathematics. [0701-1]

1411. Introduction to Technology. (1). Emphasis on engineering technology programs as to provide opportunities for growth in technical occupations, careers and activities related to various technological disciplines; approaches to basic research techniques and problem solving. [0925-1]

2411. Introduction to Instrumentation. (3). Basic mechanical and electrical instruments used in measurement of temperature, pressure, and flow. PREREQUISITE: Course established for and limited to students enrolled in nuclear studies programs.

2431. Technical Report Writing. (3). Scientific methods for organizing technical reports. Includes technical correspondence and resumes; systematizing, analyzing and interpreting data; planning and presentation of charts, diagrams and other graphic aids. PREREQUISITES: TECH 1511 and ENGL 1102. [0925-1]

2944. Analysis for Engineering Technology. (4). Application of mathematical, scientific, and engineering principles to solution of technology problems, using a variety of examples from various major areas in technology. Students learn to use scientific solving techniques to determine order of well designed problems using language and techniques or related technological disciplines and selected areas of mathematics, such as algebra, trigonometry, calculus, and differential equations. Three lecture, three laboratory hours per week. PREREQUISITE: MATH 1312. [0925-1]

3262. Computer Applications in Nuclear Power. (3). Specialized course in applications of computer technology within the nuclear power generation system. Includes overview of digital logic and hardware, problem solving, numerical and nuclear power applications. PREREQUISITE: course established and limited to students enrolled in nuclear studies programs.

3280. Fluid Power. (3). Fundamental principles of hydraulic and pneumatic systems; emphasis on fluid instrumentation, control, and measurement. Two lecture, three laboratory hours per week. PREREQUISITE: MATH 1213. [0925-1]

3400. Forces and Force Systems. (3). Force systems and their solution; that branch of mechanics which deals with forces and their effects. Fall semester. Course established and limited to students enrolled in nuclear studies programs.

3401. Strength of Materials. (3). Analysis and study of structural materials. PREREQUISITES: TECH 3400. [0925-1]

3411. Industrial Materials. (3). Properties of structural materials and methods used to test for these properties. Two lecture, three laboratory hours per week. [0925-1]

3413. Materials Structure and Properties. (3). Environmental considerations, properties (both microscopic and macroscopic), testing and classification of materials in the nuclear power generation system. Fall semester. Course established and limited to students enrolled in nuclear studies programs.

3440. Project Cost Evaluation I. (3). Industrial as well as personal financial situations and how they are reflected in the cost of a product. Value engineering, selection of economic alternatives including applications of existing formulas, techniques, and methods. Three lecture hours per week. PREREQUISITES: junior standing or permission of instructor. [0925-1]

3450. Project Cost Evaluation II. (3). Continuation of study of industrial and personal financial situations. Factors and alternatives to personal and industrial cost projects. Emphasis on analysis of tax structure and how it influences selection of optimum financial alternatives. PREREQUISITE: TECH 3440. [0925-1]

3460. Applied Approaches to Public Fire Protection. (3). Systems analysis and its use and limitations in fire protection and other problem areas. Illustrated with case studies and models using the systems approach to fire suppression and prevention. PREREQUISITE: admission restricted to students seeking B.P.S. in Fire Administration or Fire Prevention Technology. [0925-9]

3942. Fire Related Human Factors. (3). Dynamics of human behavior in fire incidents related to building design, codes and ordinances, and other fire prevention practices. PREREQUISITE: admission restricted to students seeking B.P.S. degree in Fire Administration or Fire Prevention Technology. [0925-9]

3944. Fire Protection Structure and Systems Design. (3). Design principles involved in protection of structure from fire involvement. Empirical tests and prediction procedures. Contractor detection, and suppression system design practices. Fundamentals of hydrodynamic design of water and spray systems with recent emphasis. PREREQUISITE: admission restricted to students seeking B.P.S. degree in Fire Administration or Fire Prevention Technology.

4381. Principles of Supervision. (3). Functions of supervisory personnel. [0925-1]

4944. Problems in Technology. (3). Study and research in specific area. PREREQUISITE: senior classification for majors and minors in Technology who offer satisfactory evidence of being qualified to benefit from course. [0925-8]

Q985 VOCATIONAL-TECHNICAL EDUCATION (VTECH)

1011. Introduction to Industrial Education. (3). Overview of programs in vocational, technical, and industrial arts education. Includes history and development, aims and objectives, activities, and contemporary nature of programs. [0925-1]

3010. Cooperative Occupational Education. (3). (Same as EDUC 3010 and HMEC 3010). Introduction to study of occupational education programs which use work experience coordinated with related in-school instruction to provide career preparation in trade and industrial areas. [0839-1]

3020. Manipulative Skill in Occupational Specialty. (3-15). Credit determined by performance evaluation by department granting degree or acceptance of nationally administered evaluation program. [0925-8]

3030. Knowledge of Related Subjects to Occupational Specialty. (3-15). Credit determined by performance evaluation by department granting degree or acceptance of nationally administered evaluation program. [0925-8]

3301. Analysis of Teaching. (3). (Same as EDUC 3301). Analysis of teaching demonstrations plus observations and evaluation by teacher experience in vocational-technical subject specialty. [0839-1]

4010. Occupational Internships. (3). Cooperative work experience program for persons having neither saleable skills nor work experience adequate to meet certification requirements. [0925-1]

4110. Job Analysis. (3). Systems approach to identifying and specifying content in vocational-technical education, components of instructional system, identification of student needs and abilities, job descriptions, job analysis, and instructional objectives. [0925-1]

4120-6120. Curriculum Building In Industrial Education. (3). Basic techniques in curriculum planning and instructional development, including planning and preparing learning experiences, preparing learning activities, selecting and preparing learning resources and evaluating student performance. [0839-1]

4130-6130. Organization and Operation of Youth Organizations. (2). Development and operation of youth organizations in vocational training programs. Includes youth organization development, history of youth organizations in America, parliamentary law, youth organization activity and competition. [0925-1]

4140-6140. Organization and Utilization of Advisory Committees. (2). Development and utilization of advisory committees in vocational educational training. Includes different committees, their functions, utilization, and role of local labor market. [0925-1]

4160-6210. Methods of Teaching Industrial Education. (3). (Same as EDUC 3304a). Understandings and skills required for planning, utilizing, and evaluating instructional methodologies and techniques used in industrial education. Three lecture hours per week. [0839-1]

4220. Vocational-Technical Instructional Materials. (3). Selection, use, and construction of audiovisual materials for vocational-technical education. Emphasis on integration of these materials into the total instructional system. [0839-1]

4611-6611. Principles and Philosophy of Vocational Education. (3). (Same as DTED 4611 and HMEC 4611). History, philosophy, principles and objectives of vocational education; curriculum problems; contribution of vocational-technical education to general education; trends in vocational-technical education. [0839-1]

4641. Techniques of Coordination of Cooperative Occupational Education. (3). (Same as DTED 4641). Selecting training agencies; developing analyses; selecting and briefing training supervisor; selecting and working with advisory committees; utilizing other community resources. PREREQUISITE: VTECH 3010. [0839-1]

4814. Student Teaching. (9). In-school experience under the supervision of a qualified instructor of the vocational-technical subject in which the student is specializing. [0839-5]

4850. Problems in Vocational-Technical Education. (1-3). Independent study and completion of a term paper dealing with a current operational problem in vocational-technical education. [0925-8]

4860. Curriculum Problems In Vocational-Technical Education. (1-3). Independent study and completion of a term paper dealing with a current curriculum problem in vocational-technical education. [0839-8]

4871. Seminar in Vocational-Technical Education. (1-9). Workshops and conferences dealing with instructional and

operational problems in vocational-technical education. [0925-1]

4930. Conference Leadership In Vocational-Technical Education. (3). Techniques and strategies used to direct small group conferences in education or industry toward specified goals through discussion and interaction. [0925-1]

4911-19. Experience In Vocational-Technical Education. (1-9). Advanced training in industry for instructors desiring to update their skills or to add other skills related to their occupations specifically. [0925-5]

4930. Conference Leadership In Vocational-Technical Education. (3). Techniques and strategies used to direct small group conferences in education or industry toward specified goals through discussion and interaction. [0925-1]

GEOLOGY

PROFESSOR RICHARD W. LOUNSBURY,
Chairman

Room 312, Engineering Building

Q850 GEOLOGY (GEO)

1101. Physical Geology. (4). Earth's composition and structure and processes which affect it. Emphasis on crust of earth and processes which continually modify surface. Three lectures, two laboratory hours per week. [1914-1]

1201. Historical Geology. (4). History of earth and its life as interpreted from fossils and rock records. Principles of interpretation of rocks and fossils and the significance of geological events which led to modern world. Three lecture, two laboratory hours per week. PREREQUISITE: GEOE 1101. [1914-1]

2311. Mineralogy. (4). Introduction to crystallography and crystal chemistry. Physico-chemical properties and identification of important ore and rock forming minerals. Three lectures, two laboratory hours per week. PREREQUISITES: GEOE 1101 and 1201; CHEM 1111; COREQUISITE: CHEM 1112. [1914-1]

2312. Petrology. (4). Study and identification of rocks. Examination and identification of minerals, emphasis on rock-forming minerals included in studies of rocks. Two lecture, four laboratory hours per week. PREREQUISITE: GEOE 2311. [1914-1]

3100. Life of the Past. (3). Fossil record of the history of life and consideration of concepts used in interpreting the significance of that record. Primary for general student. Credit will not be given for both. PREREQUISITE: for a major in geology [1914-1]

3211. Introduction to Paleontology. (4). Fossil invertebrates and their importance in interpretation of ancient environments, evolution, and geologic time. Three lecture, two laboratory hours per week. PREREQUISITES: GEOE 1101, 1201. [1918-1]

3512. Structural Geology. (4). Rock structures; origin, criteria for recognition and solution of structural problems. Two lecture, four laboratory hours per week. PREREQUISITE: GEOE 1201. [1914-1]

371. Sedimentation and Stratigraphy. (4). Origin and classification of sedimentary rocks and mutual relationship of sedimentary rock bodies both geographically and through geologic time. Lecture emphasizes comparison of modern depositional systems with their ancient counterparts. Laboratory work has been eliminated and emphasis is on reading of geologic maps. Three lecture, two laboratory hours per week. PREREQUISITE: GEOE 1201. [1914-1]

3802. Introduction to Oceanography. (3). Principles of physical and chemical oceanography. Sea floor topography, geologic agents, and contribution of life to physical and chemical changes in the ocean. Three lecture, two laboratory hours per week. [1919-1]

4120-6120. Optical Crystallography. (3). Principles and methods of study of optical crystallography. Use of polarizing microscope in the identification of minerals. Two lecture, four laboratory hours per week. PREREQUISITE: GEOE 2312. [1914-1]

4201-6201. Aerial Photography and Remote Sensing. (4). Introduction to theory and application of black and white and color air photos and side-looking radar, multispectral scanner and infrared imagery. Laboratory primarily computer oriented. Three lecture, two laboratory hours per week. [1914-1]

4220-6220. Geomorphology. (4). Theories of landscape development; consideration of processes active at earth's surface; weathering, pedogenesis, mass-wasting, groundwater, fluvial, eolian, and glacial processes. Three lecture, two laboratory hours per week. [1914-1]

4251-6251. Quaternary Geology. (3). Quaternary stratigraphy and history; emphasis on implications of climatic change. Geologic techniques particularly suited to Quaternary research. [1914-1]

4600-6600. Geographic Data Analysis. (3). Use of computer and software selection to solve geologic problems. Use of file with various programs, and use of statistical tests; regression lines, maps, and classification of data sets with aid of computer. Two lecture, two laboratory hours per week. PREREQUISITE: senior standing or consent of instructor. [1914-1]

4312-6312. Introduction to X-Ray Diffraction. (3). Basic principles of x-ray diffraction. Application to crystallographic and mineralogic problems including mineral identification by powder x-ray diffraction. Three lecture hours per week. PREREQUISITE: permission of instructor. [1914-14]

4322-6322. Petrography. (4). Classification, description, and thin-section study of rocks by means of petrographic microscope. Three lecture, two laboratory hours per week. PREREQUISITE: GEOL 4121. [1914-14]

4332-6332. Introduction to Geochemistry. (3). Geological and geochemical processes which control the distribution and distribution of elements and atomic species of earth in space and time. Three lecture hours per week. PREREQUISITE: GEOL 3211. [1915-1]

4342-6342. Principles of Stratigraphicigraphy. (3). (4421). Zonal distribution, facies analysis, and paleoecology of fossils and their application to problems of stratigraphy and depositional environments. Emphasis on fossil fuel bearing sediments. PREREQUISITES: GEOL 3211, 3712. [1918-18]

4440-6440. Seismology (3). Seismic wave propagation is developed. Other introductory topics to include earthquake source parameters, surface wave generation, fault plane solutions and global seismicity. Two lecture, two laboratory hours per week. PREREQUISITE: consent of instructor. [1916-16]

4511-6511. Economic Mineral Deposits. (3). Origin, occurrence, and composition of metallic and non-metallic mineral deposits. Three lecture hours per week. PREREQUISITES: GEOL 2311, 2312, and 3512. [1914-14]

4601-6601. Engineering Geology. (3). Application of principles of geology to engineering practice, especially in highways, construction, dams, foundations, mineral resources, and location of certain engineering materials. Three lecture hours per week. PREREQUISITE: consent of instructor. [1911-11]

4622-6622. Geology Field Camp. (6). Preparation of structural and lithologic maps in planned geologic areas using topographic maps and aerial photographs. Instruments used are the alidade and the Brunton compass. Offered in summer school only. PREREQUISITES: GEOL 2312, 3512, and 3712. [1914-14]

4632-6632. Applied Geophysics. (4). Survey of geophysical methods emphasizing seismic and magnetic investigations employed in mineral exploration. Use of resistivity, tension graph and magnetometer in the investigation of subsurface materials. Location of sand, gravel, and subsurface water discussed and supplemented by field measurements with these methods. Two lecture, four laboratory hours per week. [1916-16]

4701-6701. Spring Field Trip. (1-2). Conducted field trips during spring vacation. About 30 hours of field work follow 2-4 hours of lectures. Open to non-majors. Among areas which may be included are Osuchita-Arbuckle-Wichita Mountains of Oklahoma, the Colorado Rockies, the Colorado Plateau, the Great Basin, central and southern Appalachians and Gulf Coastal Plain. Check Schedule of Classes for specific location. Note: May be repeated three times when location varies. A total of no more than 8 hours credit may be earned. Dates, hours and credit may be arranged. PREREQUISITE: consent of instructor. [1914-8]

4721. Investigations In Geology. (1-3). Individual or group work on topics of current interest. PREREQUISITE: consent of instructor. [1914-8]

4731. Senior Thesis. (1-3). Original study, on subject of geological significance, to be carried on independently by student with faculty supervision. PREREQUISITE: senior standing in Geology. [1914-8]

MECHANICAL ENGINEERING

PROFESSOR JOHN D. RAY, Chairman

Room 108A, Engineering Building

Q870 MECHANICAL ENGINEERING (MECH)

2332. Dynamics. (3). Kinematics and kinetics of particles and rigid bodies. Three lecture hours per week. PREREQUISITE: CIVL 2131. [0910-1]

2362. Thermodynamics for Chemical Engineers. (3). Stoichiometric analysis of chemical reactions. Investigation of

homogeneous mixtures and phase equilibria. Quantitative treatment of rate processes, distillation, extraction, absorption. PREREQUISITE: MECH 2322.

3305. Mechanical Instrumentation and Measurement. (3). Accuracy, precision and statistical consideration of measurement of physical quantities. Measurement of velocity, mean acceleration, force, torque, pressure and temperature, mean speed; mechanical impedance; measurement of fluids and instrumentation systems. Lectures supplemented with laboratory demonstrations. PREREQUISITE: MECH 2332.

3311. Engineering Thermodynamics I. (3). Laws of thermodynamics and their applications to engineering problems. Three lecture hours per week. PREREQUISITE: MATH 2322, PHYS 2512. [0910-1]

3312. Engineering Thermodynamics II. (3). Applications of thermodynamics laws; emphasis on real gases, real gas mixtures, combustion, gas cycles, chemical cycles. Three lecture hours per week. PREREQUISITE: MECH 3311. [0910-1]

3321. Dynamics and Control of Machines I. (3). Dynamics analysis of mechanism including rigid body dynamics and balancing of machines. Introduction to linear mechanical systems and stability analysis of linear mechanical systems. Three lecture hours per week. PREREQUISITES: MATH 2322, MECH 3311. [0910-1]

3322. Mechanics of Materials. (4). Analysis of stress and strain of deformable solids; tension, compression, torsion and flexure. Three lecture, three laboratory hours per week. PREREQUISITE: CIVL 2131. [0910-1]

3323. Mechanical Design and Analysis I. (3). Methodology and practice in designing machine components by integrating principles from mechanics of materials, failure theory, fatigue, economics and other principles. PREREQUISITES: MEC 3322. [0910-1]

3331. Mechanics of Fluids. (4). Statics and dynamics of fluids; applications to measurement of properties of water and air and flow. Three lecture, three laboratory hours per week. PREREQUISITE: MECH 2332. [0910-1]

3341. Mechanical Engineering Analysis. (3). Engineering mechanics, classical analysis, computer techniques, and their interaction in solving engineering problems. PREREQUISITE: MATH 3391. [0910-3]

3361. Materials Science. (4). Structure and properties of solids; modification of structure for engineering purposes, characteristics of polymers, ceramics, and metals. Three lecture, three laboratory hours per week. PREREQUISITE: PHYS 2512. [0910-1]

3403-6303. Experimental Stress Analysis. (3). Application of electric resistance strain gage, photoelasticity and brittle fracture to the solution of stress analysis problems. PREREQUISITE: MEC 3322. [0910-1]

4309. Gas Dynamics. (3). Thermodynamics of fluid flow including dynamic and energy relations, adiabatic and diabatic flows. Three lecture hours per week. PREREQUISITE: MEC 3312. [0910-1]

4311. Heat Transfer I. (3). Fundamentals of conduction and convection heat transfer. Discussion of Fourier Series, Laplace transforms, and Numerical methods used in heat transfers and analyses. Three lecture hours per week. PREREQUISITE: MEC 3312. [0910-1]

4312. Power Generation. (3). Application of principles of thermodynamics to the generation and heat transfer to conversion of useful energy. Includes terrestrial and thermodynamic limitations, power plants, nuclear energy, solar energy, and direct energy conversion. PREREQUISITE: MEC 3311. [0910-1]

4313-6313. Heat Transfer II. (3). Continuation of MEC 4311 with application to design of heat transfer systems. PREREQUISITE: MEC 4311. [0910-1]

4315-6315. Heating, Ventilation and Air Conditioning. (3). Psychrometrics analyses, heating and cooling loads of buildings and analyses of air conditioning systems. Three lecture hours per week. PREREQUISITE: MEC 4311.

4316-6316. Energy Conservation and Management. (3). Energy conservation, energy efficiency, energy distribution, energy conversion, heating system efficiency, etc. Effects of energy production and utilization on environment. Problems of energy management. PREREQUISITE: MEC 4311.

[0910-1]

median, limps, narratives, plays, poems, speeches, etc.) PREREQUISITE: application or admission to University College, or permission of dean. [4901-9]

1020. Communication II. (6). Research into and critical interpretation of those media which create environment of symbols and of effects of such environments on human belief and action, for example, written periodical and book form, radio, television, film, recorded music, and electronic and/or electronic communication. Individual research into symbols used for communication and environments these symbols produce. PREREQUISITES: UNIV 1010 or ENGL 1101 and ENGL 1102 or their equivalents, and application or admission to the University College or permission of dean. [4901-9]

1410. Social Science. (6). Introduction to fundamental concepts used by disciplines of anthropology, economics, political science, geography, psychology and sociology. Emphasis

The following courses are open to students enrolled in the University College. Others may enroll with the permission of the Dean of the College.

The specific content of Liberal Studies and Thematic Studies courses will vary from semester to semester; general course descriptions are presented here.

R950 LIBERAL STUDIES (UNIV)

1010. Communication I. (6). Exercises in critical listening and interpretation and in effective writing and speaking based on rhetorical analysis of selected documents (e.g., essays, docu-

4317-6317. Fundamentals of Solar Engineering. (3). Introduction to engineering applications of solar energy including solar energy collectors, storage systems, and uses such as power generation and heating and cooling of buildings. COR-EQUISITE: MEC 3322.

4322-6318. Combustion. (3). Concepts of high temperature and chemically reacting gases. Adiabatic flame temperature kinetics of reactions. Detonation. Products of pollutants in combustion systems. PREREQUISITE: MEC 3312.

4322. Mechanical Design and Analysis II. (2). Analytical treatment of methods used in design process including creativity, problem, and design as applied to design process. Tools used through problem design to final design. PREREQUISITE: MEC 3323. [0910-1]

4323. Mechanical Design and Analysis III. (2). Design process applied to real multidisciplinary problems. Team approach to accomplish design projects broad spectrum of interest of design. Selected topics include: thermodynamics, materials in mechanical engineering. PREREQUISITE: MEC 4322.

4325-6325. Advanced Mechanics of Materials. (3). Unsymmetrical bending and torsion of flexural members of non-circular cross-section; beams on elastic foundations and other selected topics; deformations beyond elastic limit. PREREQUISITE: MEC 3322. [0910-1]

4326-6326. Biomedical Systems Analysis- Mechanical. (3). Introduction to concepts used in analyzing living systems. Simulation of body functions with mechanical and computer models. Familiarization with design of mechanical and biomedical systems. Application of concepts to heart-lung machines, renal dialysis machines, etc. [0910-1]

4331. Turbomachinery. (3). Aerodynamics and flow of fluids in stationary and rotating passages. One, two and three dimensional analysis. Three lecture hours per week. PREREQUISITE: MEC 3331. [0910-1]

4344. Dynamics and Control of Machines II. (3). Analysis of mechanical vibration for design of freedom of systems and response control and stability of mechanical systems. PREREQUISITE: MEC 3321. [0910-1]

4345-6345. Design of Mechanisms. (3). Graphical and analytical mechanism synthesis techniques for path generation, function generation, rigid body guidance and optimization of force transmission characteristics. PREREQUISITE: MEC 3321. [0910-1]

4346-6346. Mechanical Controls. (3). Fundamental control system concepts, the Laplace transformation, modeling of mechanical control system elements, design of mechanical systems and stability criteria. PREREQUISITE: MATH 3391. [0910-1]

4350-6350. Mechanics for Biomedical Engineers. (3). Analysis of the bond and joint structure of the body related to the basic mechanical equations and properties. Mathematical modeling of bone structure, mechanical properties, static loading, dynamic loading, fatigue, wear, corrosion.

4356-6356. Fluid Mechanics for Biomedical Engineers. (3). Elements of fluid dynamics for biomedical engineers. Elements of fluid mechanics, properties of liquids and gases, flow of fluids in tubes with elastic walls, pulsatile blood flow, input impedance and pulse waves, vascular walls, flow through arterial walls, models of circulation system. PREREQUISITE: consent of instructor.

4354-6354. Heat and Mass Transfer for Biomedical Engineers. (3). Heat transfer, mass transfer, and heat-mass transfer in biological systems. First and second law of thermodynamics applied to biological systems.

4361. Metallurgy. (4). Physical metallurgy, heat treatment, and metallurgy. Three lecture, three laboratory hours per week. PREREQUISITE: MEC 3361. [0914-14]

4371-6371. Mechanical Vibrations. (3). Kinematics of harmonic motion, free and forced vibrations, systems of one and several degrees of freedom, free and forced vibrations, self-excited vibrations. Three lecture hours per week. PREREQUISITE: MATH 3311. [0910-1]

4381. Manufacturing Engineering Operation. (3). Machines, tools, and processes used in modern production. Three lecture hours per week. PREREQUISITES: MEC 3322, MEC 3361. [0910-1]

4382. Manufacturing Engineering Design. (3). Design of electromechanical systems for manufacturing processes and production operations. Design based on optimization of machine interaction, selection of materials and the manufacturing process, and how specific production equipment. PREREQUISITE: MEC 3322, 3361.

4391. Mechanical Engineering Projects. (1-3). Independent investigation of mechanical engineering problem in consultation with instructor. PREREQUISITE: application or admission to University College, or permission of dean. [4901-8]

THE UNIVERSITY COLLEGE

1210. Humanities. (6). Research into and critical interpretation of major documents and symbols of Western civilization; emphasis on man's attempt, in philosophy, religion, history, literature, and fine arts, to frame coherent place for himself in the world. One or two historical periods stressed. NOTE: On occasion, this course may be same as certain sections of HIST 1301 and 1302, four or five hours of credit. See Schedule of Classes. PREREQUISITE: application or admission to University College, or permission of dean. [4901-3]

1410. Social Science. (6). Introduction to fundamental concepts used by disciplines of anthropology, economics, political science, geography, psychology and sociology. Emphasis

on understanding human behavior through study of culture, society and its institutions, personality and mental processes, allocation of resources, and distribution of power. Students encouraged to develop a social science perspective on human behavior and to initiate and research topics of their own research of their own. *NOTE:* On occasion, this course will be same as certain sections of *INTL 1101 and 1102*, with regional focus on *Their World*. See *Schedule of Classes*. **PREREQUISITE:** application or admission to University College, or permission of dean. [4903-9]

1016. Natural Science. (6). Basic processes of physical and natural science as applied to selected areas of biology, chemistry, geography, geology, and physics. Formulations of models and use of inductive reasoning in study of physical phenomena and their applications to intervention in areas of natural science disciplines. Laboratory work included. **PREREQUISITE:** application or admission to University College, or permission of dean. [4902-9]

1810. Leisure and Recreation. (2 or 4). Relationship between leisure, recreation, and work; emphasis on individualized lifestyle. Opportunities to participate in and evaluate individualized recreational skills and activities. **PREREQUISITE:** application or admission to University College, or permission of dean. [4901-9]

R950 THEMATIC STUDIES (UNIV)

3500-3599. Thematic Studies. (6-9). Interdisciplinary seminars about significant problems, themes, or ideas. Specific descriptions to be submitted. Addendum to *Schedule of Classes*. **PREREQUISITE:** application or admission to University College, or permission of dean. [4901-1]

R950 INDIVIDUALIZED STUDIES (UNIV)

1005. Directed Study. (1-3). Directed study at introductory level. Students may select a problem in their field of faculty direction in an area not routinely taught. This course may be repeated for maximum credit of six hours. **PREREQUISITE:** application or admission to University College, or permission of dean. [4901-1]

3700. Special Topics. (3-6). Interdisciplinary examination of selected topics announced in *Schedule of Classes*. [4999-1]

4110. Internship. (3-12). Supervised training in work related to student's educational objectives. May be repeated to maximum of 12 hours. **PREREQUISITE:** admission to University College. [4999-1]

4380. Individual Student. (1-3). Directed individual study or research. Student who has identified area of study pertinent to his coordinated study program, but not routinely taught.

may pursue the study under direction of faculty member. May be repeated to maximum of 6 hours. **PREREQUISITE:** admission to University College. [4999-8]

4996. Special Project. (9). Academic research or other creative activity resulting in tangible product to demonstrate synthesis of student's Coordinated Study. **PREREQUISITE:** admission to University College and completion of a Theoretical Studies course (UNIV 35-). [4999-8]

R950 EXPERIMENTAL LEARNING (UNIV)

A portfolio describing and documenting knowledge gained through experience or non-traditional instruction may be prepared in a student's Coordinated Study under faculty member's direction. See Section 3, *Fundamental Rules*, Section 5, *Academic Regulations*, for more details. That faculty member recommends the descriptive title, level, and amount of credit to be assigned by the dean of University College.

3800-1999. Introductory Level Experimental Learning (descriptive title) [4999-9]

2900-2999. Intermediate Level Experimental Learning (descriptive title) [4999-9]

3900-3999. Advanced Level Experimental Learning (descriptive title). [4999-9]

INDEPENDENT DEPARTMENTS AND PROGRAMS

AEROSPACE STUDIES

LT. COLONEL JAMES C. KASPERBAUER
Professor of Aerospace Studies

Room 404, Jones Hall

V950 AEROSPACE STUDIES (AERO)

1111. Air Force Today. (1). Study of world military forces through treatment of the Department of Defense, and defense, mission and functions of United States Air Force. One class hour per week and one hour of *Leadership Laboratory. [1803-1]

1112. Air Force Today. (1). Continuation of ROTC 1111. One class hour per week and one hour of *Leadership Laboratory. [1803-1]

2211. The Development of Air Power. (1). Introduction to study of air power. Historical perspective starting before Wright Brothers are continuing through early 1970's. One class hour per week and one hour of *Leadership Laboratory. [1803-1]

2212. The Development of Air Power. (1). Continuation of ROTC 2211. One class hour per week and one hour of *Leadership Laboratory. [1803-1]

PROFESSIONAL OFFICER COURSE

3211. Aerospace Studies Four-Week Field Training. (4). Twenty-eight day course conducted during summer at active installation of USAF. consists of approximately 185 hours of instruction in Air Force basic functions, leadership, physical training, Army basic functions, career development, and survival training. Students assigned to groups of twenty-five and individually counseled and evaluated on their performance. Emphasis on self-initiated leadership activities. **PREREQUISITE:** 1803-8, or equivalent. [2210-1]

3212. Aerospace Studies Six-Week Field Training. (6). Sixty-two day course conducted during summer at active installation of USAF. consists of approximately 258 hours of instruction on role of military forces, organization of Defense Department, instruments of national security, Air Force base functions, leadership, physical training, and self-initiated leadership. Students are assigned to groups of twenty-five and individually counseled and evaluated on their performance. [1803-8]

3311. Air Force Management and Leadership. (3). Continuation of ROTC 3311. Three class hours per week and one hour of *Leadership Laboratory. [1803-1]

4411. National Security Forces in Contemporary American Society. (3). Fundamentals issues and requirements of national security. Extensive study of civil-military relations, nature of national security, and strategic requirements for defense. Three class hours per week and one hour of Leadership Laboratory. [1803-1]

4412. National Security Forces in Contemporary American Society. (3). Continuation of ROTC 4411. Three class hours per week and one hour of *Leadership Laboratory. [1803-1]

4413. Elementary Aeronautics. (3). Introduction to aviation and the fundamental principles of flight; basic meteorology

and its applications to aviation; use of navigation computers, instruments, and radio aids; basic regulations governing aircraft, aircraft operations, and flight safety preparation for FAA Private Pilot Written Examination. Three class hours per week [1803-1]

***Leadership Laboratory.** Evolves around cadet corps, a component of an Air Force organization. Opportunities for actual leadership training are provided as it relates to planned and operated. Additionally, staff uses it as a means to evaluate and develop leadership potential. One hour per week.

AUDIOLOGY AND SPEECH PATHOLOGY

PROFESSOR DANIEL S. BEASLEY
Chairman

Speech and Hearing Center
807 Jefferson

The Department of Audiology and Speech Pathology offers majors at the graduate level only.

4100-6100. Audiology. (3). Directed toward undergraduate students from disciplines other than communication disorders. Description of sound, structure and function of the human auditory system; disorders of hearing; measurement of hearing loss; hearing conservation; and neural rehabilitation. [1220-1]

4200-6200. Speech Pathology. (3). Communication disorders with special reference to those encountered by educators and others in population 0-21. Observation and discussion of classroom management; roles of various specialists, and parent conferences. [1220-1]

INTERNATIONAL STUDIES

ASSOCIATE PROFESSOR J. REX ENOCH,
Director

Office of International Studies,
Old Brister Library, 130

Courses offered for the International Studies program with the cooperation of two or more University departments are listed below. Although some of the interdepartmental courses at the upper-division level are designed primarily to serve the needs of students participating in interdisciplinary programs, enrollment in the courses is not limited to these studies.

V935 INTERNATIONAL STUDIES (INTL)

1011. Analysis of Developing Nations. (3). Interdisciplinary survey of developing nations, other societies and problems of technologically developing nations. Basic concepts and methods of social sciences employed to study processes of social change in cross-cultural comparison. *NOTE:* This course when

taken with its sequence **INTL 1102** has been approved to satisfy the social science requirement of the University College (UNIV 1410). A student may not receive credit for both **INTL 1101-1102** and **UNIV 1410** [2210-1]

1102. The Third World: A Regional View. (3). Interdisciplinary seminar on contemporary developing nations within a major world region. Regional focus on Africa, Latin America, South-East Asia, or Indian Subcontinent. [2210-1]

4201. Seminar in Latin American Studies. (3). Interdisciplinary seminar; focuses on specific theme or region in Latin America and incorporates significant materials from several disciplines in program in Latin American Studies. Written report will be presented for panel discussion. **PREREQUISITE:** permission of Latin American Studies advisor. [2210-1]

4301. Seminar in African Studies I. (3). Interdisciplinary seminar to integrate knowledge of Africa and to examine comparative and historical development of African-based research. **PREREQUISITE:** nine hours of course work in African studies representing three disciplines from group anthropology, geography, history, and political science, or permission of African Studies advisor. [2210-1]

4302. Seminar in African Studies II. (3). **PREREQUISITE:** INTL 4301. [2210-1]

4601. Seminar in International Relations. (3). Investigation of selected topics in international relations from interdisciplinary perspective. Individual research and presentation of major paper which integrates tools, data or concepts of two or more disciplines. **PREREQUISITE:** permission of International Relations advisor. [2210-1]

MEMPHIS STATE UNIVERSITY LIBRARIES

V945 MSU LIBRARIES (LIBR)

2010. Introduction to the Use of Library Resources. (3). Introduction to organization of academic library material; emphasis on bibliographic access to information-Lectures and assigned research problems to a acquaint student with general and specialized methods of access to library material. [1601-1]

LIBRARY SCIENCE

PROFESSOR EVELYN GEER CLEMENT,
Chairman

Room 101, John Willard Brister Library

V920 LIBRARY SERVICE (LIBS)

4111-6111. Library Materials for Children. (3). Evaluation and selection of books and related library materials for leisure

interests and curriculum needs of children through elementary school; extensive reading, introduction to selection criteria, bibliographic aids, authors and illustrators, and types of literature and information books. [1601-1]

4121-6121. Library Materials for Young People and Adults. (3). Evaluation and selection of books and reference library materials for children and young people; reading of people and adults from junior high school up; extensive reading, introduction to selection criteria, bibliographic aids, authors and illustrators, and types of literature and information books. [1601-1]

4131-6131. Introduction to Bibliography. (3). Theory and practice of bibliographies; reading of bibliographies; emphasis on general reference sources; introduction to principles, practices, and methods of reference service. [1601-1]

4232-6232. Cataloging and Classification. (3). Introduction to principles and techniques of cataloging and classification of books and other library materials. [1601-1]

4331-6331. School Library Administration. (3). Organization and administration of elementary and secondary school libraries; including standards, evaluation, facilities, measurement, supervision, students, and relationship to educational and guidance programs of school. [1601-1]

4401-6401. Foundations of Librarianship. (3). Introduction to librarianship as a profession and library as institution in cultural and political setting; influence of social issues, societal needs; professional organizations; and federal legislation on goals, tasks, organizations, programs, and problems of librarians. [1601-1]

Graduate courses in Library Science. For details of the graduate program, see *The Bulletin of the Graduate School*.

MILITARY SCIENCE

CAPTAIN DANE L. WOYTEK

Room 117, Health Center

V955 MILITARY SCIENCE (ARMY)

1110. The Military and American Society. (1). Role of the military in American Society; emphasis on conflict and role from 1775 to present. Organization of the Army and recent trends as well as a comparison of US/USSR/PRC military strengths. Prerequisite for entry to the advanced program unless waived by the Professor of Military Science. One lecture hour per week.

1130. National Defense and Concept of Force. (1). Theories of conflict and cause of war. Evolution of warfare to present with considerations of elements of military power, national power and principles of war. Analysis of national security system and foreign policy since 1945. One lecture, one laboratory hour per week.

2110. Leadership and Management. (2). Study and application of principles and techniques of leadership and management at a small unit or group level. Decision making, motivation, performance, and use and support of subordinate leaders emphasized. Taped situational problems discussed. Prerequisite for entry to the advanced program unless waived by the Professor of Military Science. Two lecture, one laboratory hour per week.

2120. American Military History. (2). General knowledge and appreciation of development of American military system from Colonial times to present. Development of weapons and tactics, organization, roles, and strategies of major battles in American history which illustrate the nine principles of war through use of maps and slides. Two lecture hours per week.

2140. Combat Training of the Individual Soldier and Patroling. (2). Emphasis on development of individual for combat. Basic skills of combat including combat through study of the knowledge and skills needed by an individual soldier. Two lecture, one laboratory hour per week.

2170. Tactics Strategy and War Games. (2). Basic fundamentals of planning, organizing and employing units in combat. The art and science of warfare, through war games, practice of all kinds of combat situations. Two lecture, one laboratory hour per week.

2180. Basic Military Science. (1-6). Six-week training normally taken during the summer between the second and third years by those students who have not taken previous ROTC training, or who have not completed the required basic military science course. Training conducted at designated U.S. Army installation and includes practical experience in leadership, small unit tactics, weapons drill, and communications under field conditions. After completion of camp, student will receive a certificate of satisfaction on examination administered by Military Science Department. Student must register for this course following successful camp completion in order to receive appropriate credit. (S/U) PREREQUISITE: Permission of Professor of Military Science.

2110. Advanced Military Science I. (4). First year of the advanced course includes military teaching principles, leadership and exercise of command, map and aerial photograph reading, small unit tactics, communication, field training exercises, branches of the Army and preparation for RIC Adjutant Course. Three lecture, two laboratory hours per week. PREREQUISITE: ARMY 1110 or permission of Professor of Military Science.

3120. Advanced Military Science II. (4). Continuation of first year advanced course. PREREQUISITE: ARMY 3110

4110. Advanced Military Science III. (4). Second year of the advanced course consists of training in operations, logistics, military administration, military justice, personnel management, and service orientation in preparation for call to active duty. Three lecture, two laboratory hours per week.

4120. Advanced Military Science IV. (4). Continuation of second year advanced course. PREREQUISITE: ARMY 4110

4130. The U.S. Army. (1961-1963). (3). Survey of U.S. Army organization worldwide and domestic affairs since 1961. Stress given to social, economic and political factors which have influence on the current military establishment. Non-ROTC students accepted with consent of Professor of Military Science.

4420. Contemporary Developments in the U.S. Army. (3). Special topics selected to reflect current and future force structure, research and development programs, and professional trends in U.S. Army. Student presentations on selected subjects. Non-ROTC students accepted with permission of Professor of Military Science.

4430. Leadership Seminar. (3). Advanced leadership concepts, principles, and techniques of leadership by military officer. Diversity, leadership and management principles as applied in education, business, industry, labor, government and medical related professions. Non-ROTC students accepted with consent of the Professor of Military Science.

4440. Advance War Gaming. (3). Presentation of Battalion and brigadier general tactics emphasizing necessity of proper arms employment. Simulations used to study contemporary military conflicts. Students required to present oral book review of a related subject. PREREQUISITE: ARMY 2170, 3110, or 3120.

NURSING

PROFESSOR BONNIE W. DULDIT,
Chairman

Room 316, Manning Hall

U970 NURSING (NURS)

3000. Pharmacology in Nursing. (3). Integration of knowledge from pharmacology and nursing to explore physiological and psychological reactions to drug therapy. Use, actions, and effects of major drug groups and appropriate nursing responsibilities. PREREQUISITE: CHEM 1051 and 1052. [1203-1]

3001. Individualized Study. (1-3). Directed individualized approach to increase nursing knowledge, understanding, and skills according to student needs and level objectives. Assessment of student determines content areas and clinical experience needed. May be repeated for maximum of 6 credit hours. Credit not applied toward B.S.N. degree. [1203-8]

3002. Nursing Theories. (3). Introduces conceptual thinking and the development of nursing theories. Theories of nursing and their relationship with application to nursing research and practice. Group membership skills. Open also to special students with permission of instructor. [1203-1]

3101. Health Assessment. (3). (3100). Focus on aspects of comprehensive health assessment of individuals and families, interviewing and history taking as a means of assessment and problem identification, and use of methods of obtaining data. Clinical laboratory. Open also to special students with permission of instructor. [1203-1]

3102. Clinical Nursing I. (3). (3100). Nursing process in giving primary care to individuals and families in community setting. Emphasis on direct care, wellness, communication, and problem solving. Clinical laboratory. PREREQUISITE: NURS 3000, 3100, 3102 or PRE- or COREQUISITE: BIOL 3440 or NURS 3000. [1203-1]

3103. Clinical Nursing II. (6). Focusing on nursing process in giving primary and secondary care to individuals and families with chronic health problems in community settings. Group membership skills. Clinical laboratory. PREREQUISITE: NURS 3100, 3102 or PRE- or COREQUISITE: BIOL 3440 or NURS 3000. [1203-1]

4000. Clinical Nursing III. (6). Emphasizes conceptual approach in nursing process for clients of all age groups with complex health problems. Clinical experience focuses on developing role of professional nurse in secondary and tertiary health care settings. Clinical laboratory. PREREQUISITE: NURS 3200. PREREQUISITE: NURS 4100. PRE- or COREQUISITE: EDRS 4541. [1203-1]

4100. Nursing Leadership. (3). Focus on theory, research, and practice of leadership in nursing groups within health care system. Focus concepts as communication, decision making, delegation, delegating, leadership, job satisfaction, and decision making in relation to nursing process and practice in groups. Open also to special students with permission of instructor. [1203-1]

4200. Clinical Nursing IV. (6). Incorporation of curricular concepts into synthesizing and resocializing process. Student placement in clinical setting to practice nursing process in an area of nursing practice; for demonstrating a professional role change through application of curricular concepts, theories, and research findings within family, community, and health care settings. PREREQUISITE: NURS 4100, 4541, and 4542. PREREQUISITE: EDRS 4542. [1203-1]

4300. Seminar in Nursing. (3). Stresses investigation into areas of special interest, preparation of papers and reports suitable for publication. May be repeated when the topics varies for a maximum of six hours.

UNIVERSITY HONORS PROGRAM

PROFESSOR JOSEPH R. RILEY, Director

A description of the University Honors Program appears in section 7, Collegiate and Degree Programs. Descriptions of the college and departmental programs are found with the appropriate major and degree descriptions.

V960 UNIVERSITY HONORS PROGRAM (UNHP)

3100-3199. Junior Honors Colloquium I. (3). Interdisciplinary colloquium on broad theme or topic. Specific course descriptions, each semester, are found in the section of Schedule of Classes. PREREQUISITES: junior standing and permission of Director of University Honors Program. [4999-1]

3200-3299. Junior Honors Colloquium II. (3). Same as UNHP 3100, except different theme or topic. PREREQUISITES: junior standing and permission of Director of University Honors Program. [4999-1]

4100-4198. Senior Honors Seminar I. (3). Interdisciplinary seminar on broader theme or topic than ones in junior honors colloquia. Specific course descriptions each semester in "Addenda" section of Schedule of Classes. PREREQUISITES: senior standing and permission of Director of University Honors Program. [4999-8]

4200-4299. Senior Honors Seminar II. (3). Same as UNHP 4100, except different theme or topic. PREREQUISITES: senior standing and permission of Director of University Honors Program. [4999-8]

4300. Senior Honors Thesis. (3). In lieu of one of the above courses, the honors student may write a thesis on a topic approved by the University Honors Council and directed by a faculty committee chosen by the student and approved by the Honors Council. PREREQUISITES: senior standing and permission of the Director of the University Honors Program. [4999-8]

URBAN STUDIES

ASSOCIATE PROFESSOR
MELVIN C. BARBER, Coordinator

A description of the interdisciplinary program in Urban Studies and the requirements for the major and minor in Urban Studies is listed in section 7, Collegiate and Degree Programs. Courses offered by the Department of Anthropology, Economics, Foundations of Education, Geography, History, Political Science, and Sociology and Social Work are included in this program, and the descriptions of these courses will be found under the appropriate departmental headings.

V980 URBAN STUDIES (URBN)

4001. Urban Studies Seminar. (3). Urban problems and their causes; overview of perspectives and contributions of each of six participating disciplines which include urban anthropology, urban geography, urban history, urban economics, urban planning, and urban sociology. Open to all students with review of major and minor requirements and proposed solutions in related fields presented. Required for all majors. [2214-1]

4995. Urban Studies Internship. (3). Supervised internship working with urban agencies in city, state or national level. Internship program deals primarily with data collection and analysis. [2214-5]

INTERDISCIPLINARY STUDIES

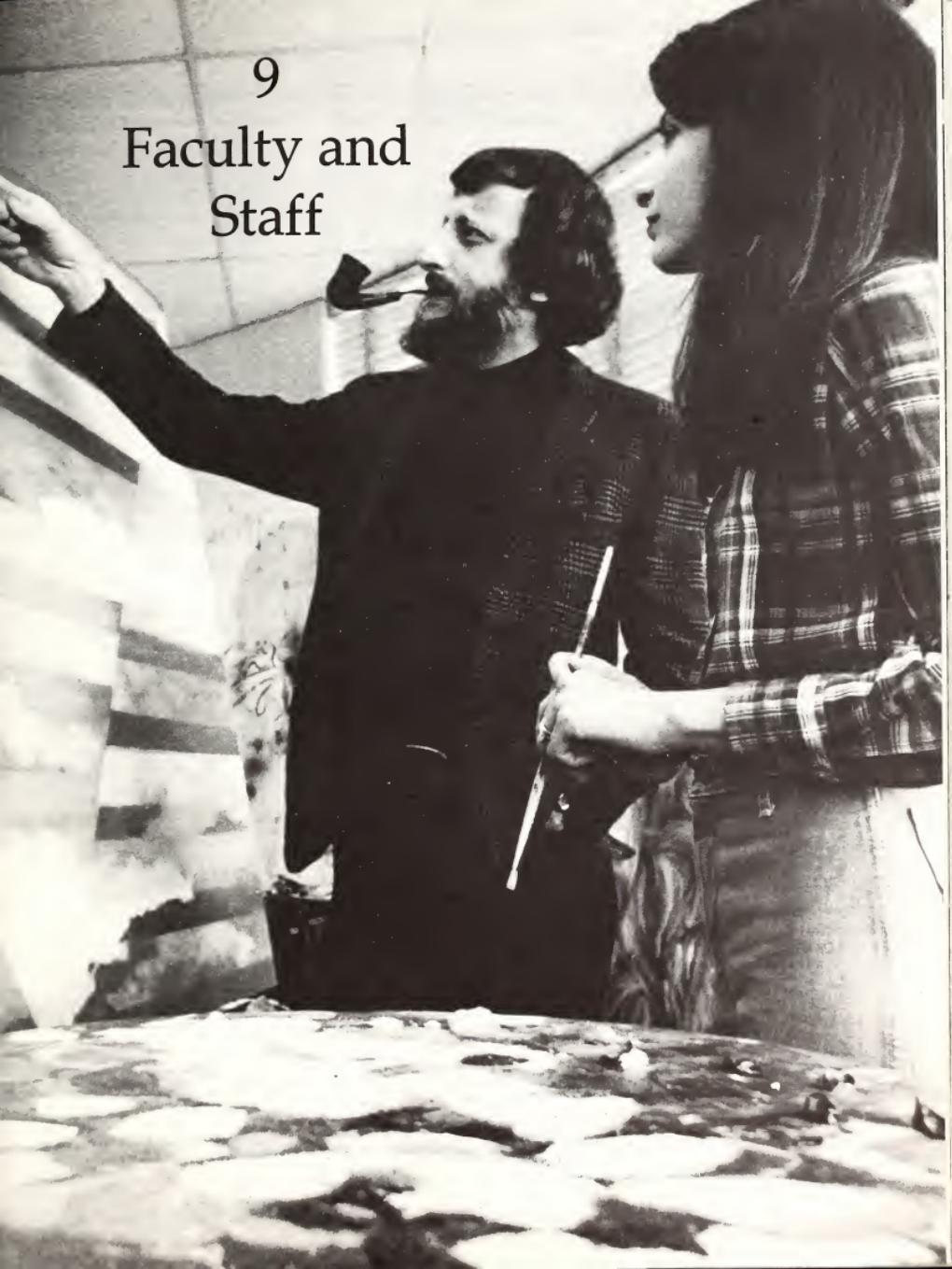
(V933) INTERDISCIPLINARY STUDIES (INTD)

The following two courses, INTD 3510 and 3511, comprise an eight month training program in law enforcement in the National Park Service and the Tennessee State Park Service. The program is coordinated by the Department of Psychology and the Tennessee State Parks. Classes, lectures, readings, and applied practical exercises.

3510. Behavior Management in Recreation Areas I. (4). Concepts of industrial training and social psychology applied to managing people as recreation areas. Basic skills of recreation areas, including conflict resolution, job satisfaction, and decision making in relation to recreation process and practice in groups. Open also to special students with permission of instructor.

3511. Behavior Management in Recreation Areas II. (4). Advanced consideration of content and skills involved in managing people as recreation areas. Basic skills of recreation areas, including conflict resolution, job satisfaction, and decision making in relation to recreation process and practice in groups. Open also to special students with permission of instructor.

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FACULTY AND STAFF

The names, positions, and titles listed in this section reflect the status as of 1981-82.

PRESIDENT'S OFFICE

THOMAS G. CARPENTER, Ph.D., President
 FRED H. SIMMONS, B.S., Assistant to the President
 BILLY J. MURPHY, B.S., Assistant to the President for Athletics
 DAVID C. PORTEOUS, J.D., Legal Counsel
 JOYCE KILPATRICK, M.B.A., C.P.A., Director of Internal Auditing

ACADEMIC AFFAIRS

JERRY NEAL BOONE, Ph.D., Vice President for Academic Affairs
 JOHN R. DILL, Ph.D., Associate Vice President-Academic Programs
 VICTOR FEISAL, Ph.D., Associate Vice President for Academic Administration
 EDMUND P. SEGNER, Jr., Ph.D., Associate Vice President for Research
 WILLIAM A. BROTHERTON, Ed.D., Dean of Extended Programs
 MARANEL KHATEL, M.Ed., Director of Extended Programs
 NOEL A. SCHWARTZ, M.Ed., Coordinator of Academic Programs
 ALICIA TILLEY, Ed.D., Dean of Graduate Studies
 DAVID M. VAUGHT, Ph.D., Dean of Academic Planning and Analysis
 MARY GARDNER GRUENEWALD, M.Ed., Director of Institutional Research
 NICHOLAS L. WHITE, J.D., Dean of The Cecil C. Humphreys School of Law
 RAYMOND WILSON WALKER, Ed.S., Dean, Evening Academic Services
 JOHN Y. EBANK, Jr., Ed.D., Dean of Admissions and Records
 DAVID R. WALLACE, M.S., Associate Dean of Admissions and Records (Admissions)
 ANDREW J. MOURET, M.Ed., Associate Dean of Admissions and Records (Records)
 RAOUL A. ARNOLDA, Ph.D., Director for Center for Instructional Service and Research

STUDENT EDUCATIONAL SERVICES

DONALD K. CARSON, Ph.D., Vice President and Dean of Students
 DAVID A. COLLINS, M.S., Assistant to the Vice President
 MARION F. EMSLIE, Ed.D., Associate Dean of Students, Student Development
 CLARENCE O. HAMPTON, M.A., Associate Dean of Students, Student Life
 AUTHUR S. HOLMON, M.Ed., Associate Dean of Students, Minority Affairs
 ROBERT A. MARCZYNSKI, J.D., Assistant Dean of Students, Judicial Affairs
 JOHN J. ANDERSEN, M.S., Director of University Center
 ALLEN J. HAMMOND, M.Ed., Director of Student Financial Aid
 DENNIS E. HEITZMANN, Ph.D., Director of Center for Student Development
 N. DEWAINE RICE, Ed.D., Director of Residence Life
 DONA S. SPARGER, M.A., Director, Handicapped Student Services
 WALTER S. WARREN, M.B.A., Director of University Placement

BUSINESS AND FINANCE

R. EUGENE SMITH, Ph.D., Vice President for Business and Finance
 JOSEPH T. BOND II, B.B.A., Director of Purchasing
 JOHN W. COATHERN, J.D., Assistant to the Vice President for Business and Finance
 CHARLES JETTON, B.A., Director of Administrative and Business Services
 BERGEN S. MERRILL, M.S.C.E., Director of Physical Plant and Planning
 RAYMOND PIPKIN, M.A., C.P.A., Director of Finance
 ROBERT S. RUTHERFORD, B.A., Director of Security and Safety Services
 BILL WILLIAMS, M.Ed., Assistant to the Vice President for Business and Finance

CONTINUING EDUCATION AND SPECIAL PROGRAMS

JOHN A. RHODES, Jr., Ph.D., Vice President for Continuing Education and Special Programs
 SAMUEL BRACKSTONE, M.Ed., Director of Conferences and Seminars
 ANN RUBLE, B.B.A., Assistant Director of Administration
 MARYANNE HICKY, B.S., Assistant Director of Short Course Instruction
 D. WAYNE JONES, Ph.D., Director of the Center for Nuclear Research
 JAMES K. MUSKELLEY, Ed.D., Director of International Training Program

UNIVERSITY COMMUNITY RELATIONS

CHARLES F. HOLMES, M.A., Director of University Community Relations
 THOMAS MITCHELL, B.F.A., Director of Art Services
 GILBERT F. MICHAEL, Director, Photographic Services
 DEBORAH A. WARRINGTON, B.A., Director of Media Relations
 MARY BYRD, B.A., Assistant Director of Media Relations
 WILLIAM E. DAVIDSON, J.D., Director of Publications
 THELMA DRAPER, Manager, Information Center

UNIVERSITY ADVANCEMENT AND PUBLIC SERVICE

VAN N. OLIPHANT, D.B.A., Executive Assistant to the President
 G. RICHARD BROWN, B.A., Director of Development
 ROBERT L. COLLIER, M.B.A., Associate Director for Public Service
 J. ED WALLER, III, M.S., Director, National Alumni Association
 CLARENCE WEISS, Ph.D., Director of Corporate Relations

RESEARCH AND SERVICES

EDMUND P. SEGNER, Jr., Ph.D., Associate Vice President for Research
 NORMAN J. TRENK, M.Ed., Director, Office of Sponsored Programs
 PAULA GENE SWAN, M.A., Assistant Director, Office of Sponsored Programs
 LINZY D. ALBERT, M.A., Director, Regional Economic Development Center
 FREDERICK K. BELLOTT, Ed.D., Director, Bureau of Educational Research and Services

LEWIS B. COONS, Ph.D., Director, Electron Microscopy Center
 JOHN GRUNSCHE, Ph.D., Director, Center for Manpower Studies
 ARCHIBALD C. JOHNSTON, Ph.D., Director, Tennessee Earthquake Information Center
 PAUL R. LOWRY, M.B.A., Director, Bureau of Business and Economic Research
 PAUL L. SCHWARTZ, M.S.W., Director, Center for Life Cycle Studies
 DAVID COX, Ph.D., Director, Institute of Governmental Studies and Research
 CARL E. HALFORD, Ph.D., Director, Bureau of Engineering Research

INTERCOLLEGIATE ATHLETICS

ROBERT W. PATTERSON, M.A., Athletic Director
 ELMA ROANE, M.A., Assistant Athletic Director (Women)
 RAY TUCKER, Assistant Athletic Director for Marketing and Communication
 BOB WYNN, B.A., Director Public Relations
 PHIL CANNON, B.A., Ticket Manager and Director of Promotions

THE COLLEGES AND DEPARTMENTS

THE COLLEGE OF ARTS AND SCIENCES

JOHN H. WAKELEY, Ph.D., Dean of the College of Arts and Sciences
 H. DELANO BLACK, Ph.D., Associate Dean
 THOMAS R. CAPLINGER, Ph.D., Associate Dean
 NANCY SIMCO, Ph.D., Director of Graduate Studies and Research
 BONNIE S. McGEHEE, Graduation Analyst
 JOANNE B. SIMS, M.S., Academic Advisor

ANTHROPOLOGY

THOMAS W. COLLINS, Ph.D., Chairman

THOMAS W. COLLINS (1972), Professor, Chairman: B.S., 1957, Central Michigan University; M.A., 1962, Western Michigan University; M.A., 1967, Ph.D., 1971, University of Colorado

BILLY Y. S. FOGLEMAN (1975), Adjunct Assistant Professor: B.A., 1949, University of Texas; M.A., 1970, Ph.D., 1972, Southern Methodist University

STANLEY E. HYLAND (1976), Assistant Professor: B.A., 1969, 1970, University of Cincinnati; Ph.D., 1976, University of Illinois

MONTE RAY KENASTON (1966), Assistant Professor: B.S., 1957, University of Texas; M.A., 1966, Washington State University; Ph.D., 1972, Southern Illinois University

CHARLES HARISON MCNUTT (1964), Professor: B.S., 1950, University of Michigan; M.A., 1955, University of New Mexico; Ph.D., 1960, University of Michigan

RICHARD M. RAICHESON (1973), Assistant Professor: B.S., 1962, Syracuse University; M.A., 1964, Northwestern University; M.A., 1972, Ph.D., 1975, University of Pennsylvania

GERALD P. SMITH (1968), Adjunct Associate Professor, Curator of Chalcasida: B.A., 1963, Southeastern at Memphis; M.A., 1965, University of North Carolina; Ph.D., 1971, University of Missouri

AUGUSTUS SORDINAS (1967), Professor: B.S., 1957, Georgetown University; M.A., 1962, Ph.D., 1968, Harvard University

DAVID R. STEVENSON (1979), Assistant Professor: B.A., 1973, Norfolk State College; M.A., 1974, Ph.D., 1979, Ohio State University

CHARLES WILLIAMS, JR. (1979), Visiting Assistant Professor: B.A., 1969, Rust College; M.A., 1976, Ph.D., 1981, University of Illinois

BIOLOGY

JAMES F. PAYNE, Ph.D., Chairman

HAROLD RAMSEY BANCROFT (1962), Associate Professor: B.S., 1958, M.S., 1959, Ph.D., 1962, Mississippi State University

MELVIN L. BECK (1974), Associate Professor: B.S., 1967, Arkansas Tech College; Ph.D., 1974, University of Arkansas

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CAROLYN C. MALHOIT (1981), Assistant Professor: B.S., 1974, College of the Ozarks; M.L.S., 1975, George Peabody College

ELEANOR MCKAY (1976), Associate Professor: B.A., 1967, Eckerd College; M.A.L.S., 1972, University of Kentucky; M.A., 1979, University of Florida

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SUE L. RAYMOND (1981), Assistant Professor: B.A., 1967, Georgetown College; M.L.S., 1971, University of Missouri (Columbia)

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PHILIP M. SMITH (1982), Assistant Professor: B.M.E., 1970, B.S., 1972, University of Kansas; M.L.S., 1981, Florida State University

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SUNDRA WADE WILLIAMS, (1980), Instructor: B.A., 1967, University of Arkansas; M.L.S., 1977, George Peabody College

LIBRARY SCIENCE

EVELYN GEER CLEMENT, Ph.D., Chairman

EVELYN GEER CLEMENT (1972), Professor, Chairman: B.A., 1965, Tulsa University; M.L.S., 1966, University of Oklahoma; Ph.D., 1975, Indiana University

MILLICENT A. LENZ (1975), Associate Professor: B.A., 1959, Luther College; M.A., 1961, University of Kansas; M.A., 1965, University of Wisconsin; Ph.D., 1974, Northern Illinois University

RAMONA MADSON MAHOD (1964), Assistant Professor: B.S., 1955, Utah State University; M.S., 1959, C.A.S., 1971, University of Illinois

MILITARY SCIENCE

DANE L. WOYTEK, B.A., Professor of Military Science

DANE L. WOYTEK (1981), Captain, United States Army; Professor of Military Science: B.A., 1972, University of Rhode Island

1983-84 TENTATIVE CALENDAR

This calendar is tentative, and students should check the 1983-84 BULLETIN and the SCHEDULE OF CLASSES for possible changes or additions.

FALL SEMESTER 1983

AUGUST 22-25: Off-campus registrations (exact dates, times, and locations to be announced prior to registration)

AUGUST 25: Meeting of the new members of the University faculty, University Center Ballroom 9:00 A.M.

AUGUST 26: Meeting of the entire University faculty, University Center Ballroom, 9:00 A.M., followed by meetings by colleges and departments

AUGUST 29: Registration: The Graduate School

AUGUST 29-31: Registration Week: For detailed dates and times, see the *Schedule of Classes* for the Fall Semester, 1983

SEPTEMBER 1: Classes meet as scheduled

SEPTEMBER 5: Holiday: Labor Day

SEPTEMBER 8:

Last day for adding courses

Last day for making application to the Dean of Graduate Studies for degrees to be conferred in December, 1983. (File the "Intent to Graduate Card" and submit "Application for Master's Degree Candidacy" papers.)

SEPTEMBER 28: Last day for removing Summer Session "Incomplete" grades

OCTOBER 21:

Last day for **undergraduate** students to withdraw from the University

Last day for **all** students to drop courses

NOVEMBER 8: Last day for **graduate** students to withdraw from the University

NOVEMBER 23: Last day for making application to the dean of the appropriate undergraduate college for degrees to be conferred in May, 1984

NOVEMBER 24-27: Thanksgiving Holidays

DECEMBER 8: Study Day

DECEMBER 9: Final examinations begin

DECEMBER 17: Commencement

SPRING SEMESTER 1984

JANUARY 3-6: Off-Campus registrations (exact dates, times, and locations to be announced prior to registration)

JANUARY 9: Registration: The Graduate School

JANUARY 9-11: Registration Week: For detailed dates and times, see the *Schedule of Classes* for the Spring Semester, 1984

JANUARY 12: Classes meet as scheduled

JANUARY 18:

Last day for adding courses

Last day for making application to the Dean of Graduate Studies for degrees to be conferred in May, 1984. (File the "Intent to Graduate Card" and submit "Application for Master's Degree Candidacy" papers.)

JANUARY 31: Last day for removing Fall Semester "Incomplete" grades

MARCH 2:

Last day for **undergraduate** students to withdraw from the University

Last day for **all** students to drop courses

MARCH 11-18: Spring Holidays

MARCH 27: Last day for **graduate** students to withdraw from the University

APRIL 13: Last day for making application to the dean of the appropriate undergraduate college for degree to be conferred in August, 1984

APRIL 26: Study Day

APRIL 27: Final examinations begin

MAY 5: Commencement

SECOND SUMMER TERM 1984

JULY 16: Course adjustment day and registration for the Second Summer Term

JULY 12: Classes meet as scheduled

AUGUST 1:

Last day for making application to the dean of the appropriate undergraduate college for degrees to be conferred in December, 1984

Last day for **undergraduate** students to withdraw from the University (Second Summer Term)

Last day for **all** students to drop courses (Second Summer Term)

AUGUST 7: Last day for **graduate** students to withdraw from the University (Second Summer Term)

AUGUST 17: Final examinations

AUGUST 19: Commencement

EXTENDED SUMMER TERM 1984

JUNE 5-6: Registration: for dates and times, see the *Schedule of Classes* for Summer Session, 1984

JUNE 7: Classes meet as scheduled

JUNE 11: Last day for making application to Dean of Graduate Studies for degrees to be conferred in August, 1984

JUNE 12: Last day for adding or registering for Extended Term courses

JUNE 26: Last day for removing Spring Semester "Incomplete" grades

JULY 4: Holiday: Independence Day

JULY 11:

Last day for **all** students to drop courses (Extended Term)

Last day for **undergraduate** students to withdraw from the University (Extended Term)

JULY 16-17: Mid-Term Break

JULY 25: Last day for **graduate** students to withdraw from the University (Extended Term)

AUGUST 1: Last day for making application to dean of appropriate undergraduate college for degrees to be conferred in December, 1983

AUGUST 16: Study Day

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ARE YOU INTERESTED IN FINANCIAL AID?

Do you need assistance to help finance your college education? Loans, Grants, Scholarships and college work study are available through our office. For more information print your name and address in the space below and return this form to the address below. You may also phone (901) 454-2303 for information.

OFFICE OF STUDENT AID
ROOM 314, SCATES HALL
MEMPHIS STATE UNIVERSITY
MEMPHIS, TN 38152

ARE YOU INTERESTED IN LIVING ON CAMPUS?

If so, write your name and address below and return this form to the address above.

HOUSING INFORMATION OFFICE
DEPARTMENT OF RESIDENCE LIFE
ROOM 214, SCATES HALL
MEMPHIS STATE UNIVERSITY
MEMPHIS, TN 38152

If you are planning to attend Memphis State University, you will want to give serious thought to the type of living accommodations available to you on the campus and in the community. The supply of available facilities is limited, and application does not guarantee an assignment. Early application is recommended! You need not have been accepted as a student at Memphis State in order to apply for residence hall accommodations, but, of course, you must have received your final acceptance before you assume occupancy of your room assignment. Memphis State University is committed to a policy of nondiscrimination with respect to race, religion, and national origin, and practices consistent with the University's policy are followed in housing.

**HANDICAPPED STUDENT SERVICES
Information Request**

Name _____ Date of Birth _____

Address _____

Phone _____ Social Security Number _____

Disability (Please Describe) _____

Return To: **Coordinator
Handicapped Student Services
Department of Special Education and Rehabilitation
Memphis State University
Memphis, Tennessee 38152**

Or Call: (901) 454-2731 weekdays between 8:00 AM-4:30 PM.

Section 504 of the Rehabilitation Act requires the following:

- (A) Information concerning handicaps cannot be used in determining acceptance to the University.
- (B) Information may be submitted on a voluntary basis only.
- (C) Information submitted must remain confidential.



INSTRUCTIONS FOR COMPLETING THE APPLICATION AND PROCEDURES FOR UNDERGRADUATE ADMISSION

ALL APPLICANTS

The application form should be completed carefully by all applicants seeking admission to any undergraduate program. Applications must be submitted *prior* to August 1 for fall admission; December 1 for spring admission; or May 1 for summer admission. Consideration of applications received after these deadlines will be in one of the special categories below.

A five dollar (\$5.00) non-refundable application fee is required for all applicants who have not previously applied to the University. Checks or Money Orders should be made payable to Memphis State University. Applications should be returned to the Admissions Office, Memphis State University, Memphis, Tennessee 38152. For detailed information regarding admission policies and requirements, refer to section 2, *Admission to the University*, in the current MSU *Bulletin*.

Transcripts, test scores and other academic credentials must be requested by the applicant from the issuing agency and forwarded directly to the Admissions Office. Copies of such credentials accepted from the applicant will be considered unofficial.

REGULAR UNDERGRADUATE APPLICANTS

Freshman (no previous college): Request a copy of your high school record. If your high school graduation is through the General Educational Development (GED) program, have these scores forwarded to the office. You must submit scores earned on the ACT or SAT examination for consideration. If you have not been in school within the last six (6) months, you may request information on an entrance examination administered by the University.

Transfer: Request an official copy of your academic record from *each* school in which you have enrolled. Upon receipt of your application, a personnel evaluation form will be sent to you. Complete this form and ask the student personnel office at the last school attended to return it to the MSU Dean of Students Office.

Applicants who have completed less than one year of college work must submit a high school record and ACT or SAT scores in addition to college transcripts. Concealment of previous college attendance may be cause for rejection or cancellation of admission.

INTERNATIONAL APPLICANTS

The University is authorized under Federal law to enroll non-immigrant, alien students on "F-1" student visas. The established deadlines for applying are May 1 for fall admission; September 15 for spring admission; or February 1 for summer admission. For additional information, contact the International Student Office.

SPECIAL CATEGORY APPLICANTS

Designed for applicants who wish to take only a limited number of undergraduate courses and who are not presently seeking a degree at the University.

Unclassified (no previous college): Evidence of high school graduation from an approved high school is required for applicants not yet 18 years of age.

Unclassified (with previous college): Request a statement of academic standing from the Registrar at the last school attended.

Special Undergraduate (with college degree): Request a statement indicating the degree earned and date awarded from the Registrar at that college.

Audit only: Permission to audit courses must be obtained from the appropriate department chairman prior to submitting the application.

THE ADMISSIONS OFFICE is located in Suite 215 of the Administration Building. Office hours are 8:00 A.M.-4:30 P.M. Monday through Friday. The telephone number for general admissions information is (901) 454-2101. After 4:30 P.M. and Saturday mornings call 454-2398.

FOR INFORMATION, CONTACT THE OFFICE LISTED BELOW:

ACADEMIC COUNSELING	Scates Hall, Room 107, (901) 454-2062
FINANCIAL AID	Scates Hall, Room 312, (901) 454-2303
HOUSING	Jones Hall, Room 108, (901) 454-2295
VETERAN AFFAIRS	Scates Hall, Room 212, (901) 454-2996
READMISSIONS	Administration Building Room 163, (901) 454-2674

Limited medical services are available in the University Health Center. If you wish to take advantage of these services, a health record is necessary. This form may be obtained in the Health Center.

MEMPHIS STATE UNIVERSITY OFFERS EQUAL EDUCATIONAL OPPORTUNITY TO ALL PERSONS WITHOUT REGARD TO RACE, RELIGION, SEX, CREED, COLOR, NATIONAL ORIGIN, OR HANDICAP.

GUIDELINES FOR THE CLASSIFICATION OF STUDENTS FOR FEE PAYING PURPOSES

PARAGRAPH 1. INTENT: It is the intent that the public institutions of higher education in the State of Tennessee shall apply uniform rules, as described in these regulations and not otherwise, in determining whether students shall be classified in-state or out-of-state for fees and tuition purposes and for admission purposes.

PARAGRAPH 2. DEFINITIONS: Wherever used in these regulations:

(1) *Public higher educational institution* shall mean a university or community college supported by appropriations made by the Legislature of this State.

(2) *Residence* shall mean continuous physical presence and maintenance of a dwelling place within this State, provided that absence from the State for short periods of time shall not affect the establishment of a residence.

(3) *Domicile* shall mean a person's true, fixed, and permanent home and place of habitation; it is the place where he intends to remain, and to which he or she expects to return when he or she leaves without intending to establish a new domicile elsewhere.

(4) *Emancipated person* shall mean a person who has attained the age of eighteen years, and whose parents have entirely surrendered the right to the care, custody, and earnings of such person and who no longer are under any legal obligation to support or maintain such deemed "emancipated person".

(5) *Parent* shall mean a person's father or mother; or if one parent has custody of an unemancipated person, the person having custody; or if there is a guardian or legal custodian of an unemancipated person, then such guardian or legal custodian; provided, that there are not circumstances indicating that such guardianship or custodianship was created primarily for the purpose of conferring the status of an in-state student on such unemancipated person.

(6) *Continuous enrollment* shall mean enrollment at a public higher educational institution or institution of this State as a full-time student, as such term is defined by the governing body of said public higher educational institution or institutions, for a normal academic year or years or the appropriate portion or portions thereof since the beginning of the period for which continuous enrollment is claimed. Such person need not enroll in summer sessions or other such inter-sessions beyond the normal academic year in order that his or her enrollment be deemed continuous. Enrollment shall be deemed continuous notwithstanding lapses in enrollment occasioned solely by the scheduling of the commencement and/or termination of the academic years, or appro-

priate portion thereof, of the public higher educational institutions in which such person enrolls.

PARAGRAPH 3. RULES FOR DETERMINATION OF STATUS:

(1) Every person having his or her domicile in this State shall be classified in-state for fee and tuition purposes and for admission purposes.

(2) Every person not having his or her domicile in this State shall be classified out-of-state for said purposes.

(3) The domicile of an unemancipated person is that of his or her parent.

(4) The domicile of a married person shall be determined independent of the domicile of the spouse.

PARAGRAPH 4. OUT-OF-STATE STUDENTS WHO ARE NOT REQUIRED TO PAY OUT-OF-STATE TUITION:

(1) An unemancipated, currently enrolled student shall be reclassified out-of-state should his or her parent, having theretofore been domiciled in the State, remove from the State. However, such student shall not be required to pay out-of-state tuition nor be treated as an out-of-state student for admission purposes so long as his or her enrollment at a public higher educational institution or institutions shall be continuous.

(2) An unemancipated person whose parent is not domiciled in this State but is a member of the armed forces and stationed in this State or at Fort Campbell pursuant to military orders shall be classified out-of-state but shall not be required to pay out-of-state tuition. Such a person, while in continuous attendance toward the degree for which he or she is currently enrolled, shall not be required to pay out-of-state tuition if his or her parent thereafter is transferred on military orders.

(3) A person whose domicile is in a county of another state lying immediately adjacent to Montgomery County, or whose place of residence is within thirty (30) miles of Austin Peay State University shall be classified out-of-state but shall not be required to pay out-of-state tuition at Austin Peay State University. Provided, however, that there be no teacher college or normal school within the non-resident's own state, of equal distance to said non-resident's bona fide place of residence.

(4) Part-time students who are not domiciled in this State but who reside in this State, and are employed full-time in the State, or who are stationed at Fort Campbell pursuant to military orders, shall be classified out-of-state but shall not be required to pay out-of-state tuition (Part-time students are those classi-

fied as such by the individual public higher educational institutions of this state).

(5) Military personnel and their spouses stationed in the State of Tennessee who would be classified out-of-state in accordance with other provisions of these regulations will be classified out-of-state but shall not be required to pay out-of-state tuition. This provision shall not apply to military personnel and their spouses who are stationed in this State primarily for educational purposes.

PARAGRAPH 5. PRESUMPTION: Unless the contrary appears from clear and convincing evidence, it shall be presumed that an emancipated person does not acquire domicile in this state while enrolled as a full-time student at any *public or private* higher educational institution in this state, as such status is defined by such institution.

PARAGRAPH 6. EVIDENCE TO BE CONSIDERED FOR ESTABLISHMENT OF DOMICILE: If a person asserts that he or she has established domicile in this State he or she has the burden of proving that he or she has done so. Such a person is entitled to provide to the public higher educational institution by which he seeks to be classified or reclassified in-state, any and all evidence which he or she believes will sustain his or her burden of proof. Said institution will consider any and all evidence provided to it concerning such claim of domicile but will not treat any particular type or item of such evidence as conclusive evidence that domicile has or has not been established.

PARAGRAPH 7. APPEAL: The classification officer of each public higher educational institution shall be responsible for initially classifying students *in state or out-of-state*. Appropriate procedures shall be established by each such institution by which a student may appeal his or her initial classification.

PARAGRAPH 8. EFFECTIVE DATE FOR RECLASSIFICATION: If a student classified out-of-state applies for in-state classification and is subsequently so classified, his or her in-state classification shall be effective as of the date on which reclassification was sought. However, out-of-state tuition will be charged for any quarter or semester during which reclassification is sought and obtained unless application for reclassification is made to the admissions officer on or before the last day of registration of that quarter or semester.

PARAGRAPH 9. EFFECTIVE DATE: These regulations supersede all regulations concerning classification of persons for fees and tuition and admission purposes previously adopted by the State Board of Regents, and having been approved by the Governor, became effective May 1, 1975.

**APPLICATION FOR ADMISSION
MEMPHIS STATE UNIVERSITY**
Memphis, Tennessee 38152

DO NOT WRITE IN THIS SPACE

Application
Fee Receipt

147

**APPLICANTS MUST COMPLETE EVERY ITEM ON THIS FORM, SIGN AND DATE THE APPLICATION, AND RETURN
WITH A \$5.00 NON-REFUNDABLE FEE UNLESS PREVIOUSLY PAID**

Social Security Number

Date of Birth

Mo Date Year

Name

Last

Suffix

First

Middle

Address

Street Number and Name

City

County

State

Area Code

Telephone #

Term applying for (check only one) Fall Spring 3-week Summer Summer Year _____

Name of High School

Date of Graduation

Address

City

State

Zip Code

What is your name on your high school transcript? _____

you have earned the high school GED equivalent, indicate date earned _____

Have you taken a college entrance examination (ACT, SAT)? Yes No

Have you registered and/or have you attended any college or university? Yes No

Yes, what is your name on your college transcript? _____

Are you currently enrolled? Yes No

List ALL College experience including Memphis State. If none, write NONE.

Name of College or University	City & State	Dates of Attendance (Term/Year)	Did you graduate?		If yes, Degree earned & date
			<input type="checkbox"/> Yes	<input type="checkbox"/> No	
		(Term/Year) - (Term/Year)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
		(Term/Year) - (Term/Year)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
		(Term/Year) - (Term/Year)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
		(Term/Year) - (Term/Year)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
		(Term/Year) - (Term/Year)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
		(Term/Year) - (Term/Year)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
		(Term/Year) - (Term/Year)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
		(Term/Year) - (Term/Year)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	

Student Classification Freshman Sophomore Junior Senior Special

STUDENT LEVEL: (See Definitions on Page 145):

Regular Undergraduate Unclassified Special Undergraduate Audit Only

Have you previously applied to MSU? Yes No If yes, indicate term and year _____

Did you attend? Yes No If yes, indicate term and year _____

Are you currently enrolled at MSU? Yes No

Do you plan to earn an Undergraduate Degree at MSU? Yes No

Indicate Major Field you wish to study _____

(Select from list on pages 9-12. If undecided, write UNDECIDED.)

DO NOT WRITE IN THIS
SPACE SCREEN 1

01 _____ UCB

13 _____ TR

14 _____ YR

15 _____ HS

16 _____ DOG

17 _____ TYPE

22 _____ COL

23 _____ COL

24 _____ COL

25 _____ COL

26 _____ COL

27 _____ COL

28 _____ COL

29 _____ LEV

30 _____ TYPE

31 _____ RES

32 _____ AREA

33 _____ ATT

34 _____ MAJ

35 _____ AOI

Citizen of U.S.? Yes No
Sex Male Female

If no, what country _____
Type of Visa _____

SCREEN 2

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Next of Kin:

Parent
 Guardian
 Spouse
 Other

Last Name _____
Address _____
Street Number and Name _____
City _____ State _____ Zip Code _____

Are you a veteran? Yes No

Do you plan to attend MSU with Veteran's Assistance? Yes No

Have you been convicted of a crime other than a minor traffic violation? Yes No (If yes, attach statement)

Are you employed full-time? Yes No If "Yes", give name, address, and telephone number of employer: _____

Dates of employment _____ From _____ To _____

The information below will be used to determine your eligibility to pay fees as a resident of Tennessee.

Are you now living in Tennessee? Yes No Do you live with your parents? Yes No

Have you lived in Tennessee continuously since birth? Yes No

(If you answered "No" to the previous question, answer the questions below.)

When did you come or return to Tennessee? _____

What was the purpose of your coming or returning to Tennessee? _____

Do you consider yourself domiciled in Tennessee? Yes No

Do you intend to enroll as a full-time student? Yes No

If you are a veteran, when did you enter military service? _____

What was your home of record? _____

From what state did you enter military service? _____

When did you or will you leave active duty? _____

The questions below are to be completed only by those who are on active military duty or those who are dependents of military personnel on active duty.

If you are on active duty, where are you stationed? _____

Are you a dependent of a person on active military duty? Yes No

If "Yes", where is he or she stationed? _____

What state did you (or your sponsor) declare as home of record? _____

In some instances out-of-state students are not required to pay out-of-state tuition. If you have a question about your status, please review paragraph 4 of the Guidelines for the Classification of Students for Fee-Paying Purposes, or discuss your case with the Admissions Advisor for Residency.

Additional information may be required to make a determination as to the classification of a student for fee-paying purposes. In these cases additional information will be requested by the University.

I certify that none of the information on this form is false or has been withheld and that I understand that giving false information or withholding information may make me ineligible for admission or to continue my enrollment at Memphis State University. I further certify that I agree to all regulations concerning American History as set forth in the University Bulletin and the laws of the State of Tennessee.

Signature _____ Date _____

Do Not Write Below This Line

Residency Action:

Determination: (1) _____ Non-Res. _____

By: _____ Date: _____

Restrictions: _____

Pending Items: _____

Admission Action:

Approved: _____ Date: _____

Not Approved: _____ Date: _____

REMARKS: _____

NEEDS: _____

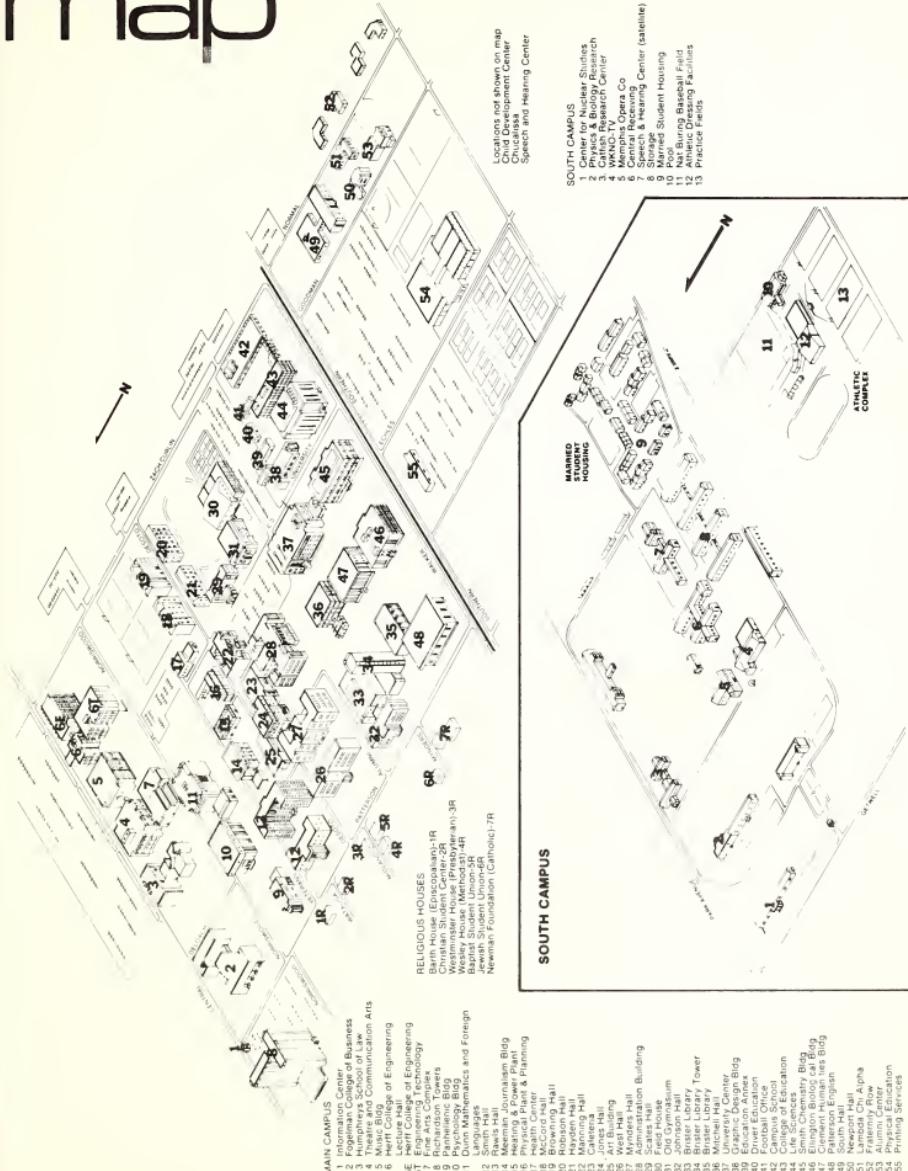
STATEMENT OF PROCEDURE

All credentials become the property of the University and cannot be forwarded or returned.

NOTE: Credentials will be maintained in active files for a 12-month period. After this period, credentials will be relegated to inactive status and must be submitted again before an admissions decision can be made.

SCREEN 2
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map



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